

Author Index

- Acquaviva, S., E. D'Anna, M.L. De Giorgi, M. Fernandez, A. Luches, G. Majni, S. Luby and E. Majkova, Transfer of stoichiometry during pulsed laser ablation of multicomponent magnetic targets 248 (2005) 286
- Acquaviva, S., M.L. De Giorgi, C. Marini and R. Poso, A support of restoration intervention of the bust of St. Gregory the Armenian: Compositional investigations by laser induced breakdown spectroscopy 248 (2005) 218
- Albert, O., see Scuderi, D. 248 (2005) 309
- Albu, L., see Alexandrescu, R. 248 (2005) 138
- Alexandrescu, R., I. Morjan, I. Voicu, F. Dumitrache, L. Albu, I. Soare and G. Prodan, Combining resonant/non-resonant processes: Nanometer-scale iron-based material preparation via CO₂ laser pyrolysis 248 (2005) 138
- Alexandrov, A., L. Smirnova, N. Yakimovich, N. Sapogova, L. Soustov, A. Kirsanov and N. Bityurin, UV-initiated growth of gold nanoparticles in PMMA matrix 248 (2005) 181
- Almeida, R.M., see Zampedri, L. 248 (2005) 3
- Altucci, C., see Parlato, L. 248 (2005) 177
- Altucci, C., see Vitiello, M. 248 (2005) 163
- Alvarez-Zauco, E., H. Sobral, E.V. Basiuk, J.M. Saniger-Blesa and M. Villagrán-Muniz, Polymerization of C₆₀ fullerene thin films by UV pulsed laser irradiation 248 (2005) 243
- Ambrico, M., see Erlacher, A. 248 (2005) 402
- Amoruso, S., B. Toftmann and J. Schou, Broadening and attenuation of UV laser ablation plumes in background gases 248 (2005) 323
- Amoruso, S., R. Bruzzese, R. Velotta, N. Spinelli, M. Vitiello and X. Wang, Characterization of LaMnO₃ laser ablation in oxygen by ion probe and optical emission spectroscopy 248 (2005) 45
- Amoruso, S., see Vitiello, M. 248 (2005) 163
- Argitis, P., see Kollia, Z. 248 (2005) 248
- Arima, V., F. Marino, J. Thompson, R. Del Sole, G. Mele, G. Vasapollo, R. Cingolani, R. Rinaldi and R.I.R. Blyth, Characterization of functionalised porphyrin films using synchrotron radiation 248 (2005) 40
- Arima, V., see Thompson, J. 248 (2005) 36
- Arimondo, E., Laser controlled nanodeposition of neutral atoms 248 (2005) 167
- Arimondo, E., see Fioretti, A. 248 (2005) 196
- Athanassiou, A., K. Lakiotaki, M. Kalyva, S. Georgiou and C. Fotakis, Photoswitches operating upon ns pulsed laser irradiation 248 (2005) 56
- Avanesyan, S.M., S. Orlando, S.C. Langford and J.T. Dickinson, Point defect production by ultrafast laser irradiation of alkali-containing silica glasses and alkali halide single crystals 248 (2005) 129
- Axente, E., see Bruneau, S. 248 (2005) 299
- Azoulay, J., see Mirchin, N. 248 (2005) 509
- Baal-Zedaka, I., see Mirchin, N. 248 (2005) 509
- Ballarini, D., see Galinetto, P. 248 (2005) 291
- Baranauskas, V., I. Garavito, Z. Jingguo and M.A. da Cruz-Höfling, Analyses of regenerative bone matrix of rat tibia after laser photo-excitation by SEM and AFM 248 (2005) 492
- Barone, A., see Parlato, L. 248 (2005) 177
- Barone, A., see Salvati, R. 248 (2005) 28
- Barucca, G., see Caricato, A.P. 248 (2005) 270
- Basiuk, E.V., see Alvarez-Zauco, E. 248 (2005) 243
- Batishche, S., A. Englezis, T. Gorovets, A. Kouzmouk, U. Pilipenka, P. Pouli, H. Tatur, G. Totou and V. Ukhau, Nd:YAG laser double wavelength ablation of pollution encrustation on marble and bonding glues on duplicated painting canvas 248 (2005) 264
- Bertolotti, M., see Fazio, E. 248 (2005) 97
- Bertolotti, M., see Vlad, V.I. 248 (2005) 484
- Bigi, A., see Mihailescu, I.N. 248 (2005) 344
- Bityurin, N., A.I. Kuznetsov and A. Kanaev, Kinetics of UV-induced darkening of titanium-oxide gels 248 (2005) 86
- Bityurin, N., see Alexandrov, A. 248 (2005) 181
- Blyth, R.I.R., see Arima, V. 248 (2005) 40
- Blyth, R.I.R., see Thompson, J. 248 (2005) 36
- Bonse, J., S.M. Wiggins and J. Solis, Phase transitions induced by femtosecond laser pulse irradiation of indium phosphide 248 (2005) 151

- Bonse, J., S.M. Wiggins, J. Solis, T. Lippert and H. Sturm, Femtosecond laser-induced decomposition in triazepolymer thin films 248 (2005) 157
- Borenshtein, M., see Gurfinkel, M. 248 (2005) 62
- Boroica, I., see Boroica, L. 248 (2005) 381
- Boroica, L., R. Mediano, M. Dinescu and I. Boroica, Glass and glass ceramic materials obtained by pulsed laser deposition in the BaO-TiO₂-B₂O₃ system 248 (2005) 381
- Borrajó, J.P., J. Serra, S. Liste, P. González, S. Chiussi, B. León and M. Pérez-Amor, Pulsed laser deposition of hydroxylapatite thin films on biomorphic silicon carbide ceramics 248 (2005) 355
- Borrajó, J.P., P. González, S. Liste, J. Serra, S. Chiussi, B. León and M. Pérez-Amor, Pulsed laser deposition of bioactive glass films in ammonia and disilane atmospheres 248 (2005) 369
- Borrajó, J.P., see Solla, E.L. 248 (2005) 360
- Bosco, A., see Fazio, E. 248 (2005) 97
- Bosco, A., see Vlad, V.I. 248 (2005) 484
- Bottani, C.E., see Ossi, P.M. 248 (2005) 334
- Bounos, G., see Rebolgar, E. 248 (2005) 254
- Bruneau, S., J. Hermann, G. Dumitru, M. Sentis and E. Axente, Ultra-fast laser ablation applied to deep-drilling of metals 248 (2005) 299
- Bruzzese, R., see Amoruso, S. 248 (2005) 45
- Camposo, A., see Fioretti, A. 248 (2005) 196
- Capitelli, M., see Pietanza, L.D. 248 (2005) 103
- Caricato, A.P., A. Fazzi and G. Leggieri, A computer program for determination of thin films thickness and optical constants 248 (2005) 440
- Caricato, A.P., G. Barucca, A. Di Cristoforo, G. Leggieri, A. Luches, G. Majni, M. Martino and P. Mengucci, Excimer pulsed laser deposition and annealing of YSZ nanometric films on Si substrates 248 (2005) 270
- Caricato, A.P., see Ngaffo, F.F. 248 (2005) 428
- Carotenuto, G., see Salvati, R. 248 (2005) 28
- Castillejo, M., see Rebolgar, E. 248 (2005) 254
- Cefalas, A.C., see Kobe, S. 248 (2005) 349
- Cefalas, A.C., see Kollija, Z. 248 (2005) 248
- Černý, R., see Gatskevich, E. 248 (2005) 259
- Cháb, V., see Gatskevich, E. 248 (2005) 259
- Chauvet, M., see Fazio, E. 248 (2005) 97
- Chazallon, B., see Mihsan, C. 248 (2005) 224, 238
- Chen, J., see Gao, H. 248 (2005) 71
- Chen, J., see Zhu, H. 248 (2005) 75
- Cheng, Y., K. Sugioka and K. Midorikawa, Microfabrication of 3D hollow structures embedded in glass by femtosecond laser for Lab-on-a-chip applications 248 (2005) 172
- Chiappini, A., see Zampedi, L. 248 (2005) 3
- Chiasera, A., see Zampedi, L. 248 (2005) 3
- Chiussi, S., see Borrajó, J.P. 248 (2005) 355, 369
- Chiussi, S., see Conde, J.C. 248 (2005) 455, 461
- Chiussi, S., see López, E. 248 (2005) 108, 113
- Chiussi, S., see Solla, E.L. 248 (2005) 360
- Chrissey, D.B., see Patz, T. 248 (2005) 416
- Chrissey, D.B., see Stamatini, L. 248 (2005) 422
- Cibulka, O., see Gatskevich, E. 248 (2005) 259
- Cingolani, R., see Arima, V. 248 (2005) 40
- Cingolani, R., see Thompson, J. 248 (2005) 36
- Clozza, A., see Cultrera, L. 248 (2005) 397
- Coe, J.M.D., see Dorneles, L.S. 248 (2005) 406
- Colonna, G., see Pietanza, L.D. 248 (2005) 103
- Conde, J.C., P. González, F. Lusquinos, S. Chiussi, J. Serra and B. León, Analytical and numerical calculations of the temperature distribution in Si and Ge targets irradiated by excimer lasers 248 (2005) 455
- Conde, J.C., P. González, F. Lusquinos, S. Chiussi, J. Serra and B. León, Finite elements analysis of heteroepitaxial SiGe layers grown by excimer laser 248 (2005) 461
- Conti, G.N., see Zampedi, L. 248 (2005) 3
- Correia, H.M.G., see Ramos, M.M.D. 248 (2005) 450
- Craciun, F., M. Dinescu, P. Verardi, N. Scarisoreanu, A. Moldovan, A. Purice and C. Galassi, Structural and electrical characterization of PLZT 22/20/80 relaxor films obtained by PLD and RF-PLD 248 (2005) 329
- Craciunoiu, F., see Ristoscu, C. 248 (2005) 411
- Cristescu, R., see Patz, T. 248 (2005) 416
- Cristescu, R., see Stamatini, L. 248 (2005) 422
- Cuisinier, F., see Mihailescu, I.N. 248 (2005) 344
- Cultrera, L., A. Pereira, C. Ristoscu, A. Clozza, F. Tazzioli and C. Vicario, Pulsed laser deposition of Mg thin films on Cu substrates for photocathode applications 248 (2005) 397
- da Cruz-Höfling, M.A., see Baranauskas, V. 248 (2005) 492
- D'Acunto, P., see Parlato, L. 248 (2005) 177
- D'Alessio, L., A. De Bonis, A. Galasso, A. Morone, A. Santagata, R. Teghil, P. Villani and M. Zaccagnino, Characterisation of ultrashort pulse laser ablation of SmBaCuO 248 (2005) 295
- D'Alessio, L., see Teghil, R. 248 (2005) 304
- D'Anna, E., see Acquaviva, S. 248 (2005) 286
- D'Orazio, A., M. De Sario, L. Mescia, V. Petruzzelli and F. Prudeniano, Design of double-clad ytterbium-doped microstructured fibre laser 248 (2005) 499
- De Bonis, A., see D'Alessio, L. 248 (2005) 295
- De Bonis, A., see Teghil, R. 248 (2005) 304
- De Giorgi, M.L., see Acquaviva, S. 248 (2005) 218, 286
- De Lisio, C., see Parlato, L. 248 (2005) 177
- de Lisio, C., see Vitiello, M. 248 (2005) 163
- De Nicola, S., see Salvati, R. 248 (2005) 28
- De Sario, M., see D'Orazio, A. 248 (2005) 499
- DeCorby, R.G., see Dwivedi, P.K. 248 (2005) 376
- DeCorby, R.G., see Sun, Y.W. 248 (2005) 392
- Del Sole, R., see Arima, V. 248 (2005) 40
- Delville, J.-P., see Hugonnot, E. 248 (2005) 185, 470, 479
- Delville, M.-H., see Hugonnot, E. 248 (2005) 470, 479
- Destombes, J.L., see Mihsan, C. 248 (2005) 238
- Di Cristoforo, A., see Caricato, A.P. 248 (2005) 270
- Di Trolino, A., see Santagata, A. 248 (2005) 19
- Dickinson, J.T., see Avanesyan, S.M. 248 (2005) 129

- Dinescu, M., see Boroica, L. 248 (2005) 381
- Dinescu, M., see Craciun, F. 248 (2005) 329
- Domingo, C., see Rebollar, E. 248 (2005) 254
- Dorneles, L.S., D. O'Mahony, C.B. Fitzgerald, F. McGee, M. Venkatesan, I. Stanca, J.G. Lunney and J.M.D. Coey, Structural and compositional analysis of transition-metal-doped ZnO and GaN PLD thin films 248 (2005) 406
- Dryakhlushin, V.F., A.Yu. Klimov, V.V. Rogov and N.V. Vostokov, Near-field optical lithography method for fabrication of the nanodimensional objects 248 (2005) 200
- Ducu, C., see Ristoscu, C. 248 (2005) 411
- Dumitrache, F., see Alexandrescu, R. 248 (2005) 138
- Dumitru, G., see Bruneau, S. 248 (2005) 299
- Dwivedi, P.K., Y.W. Sun, Y.Y. Tsui, D. Tonchev, M. Munzar, K. Koughia, C.J. Haugen, R.G. DeCorby, J.N. McMullin and S.O. Kasap, Rare-earth doped chalcogenide thin films fabricated by pulsed laser deposition 248 (2005) 376
- Eliahou-Niv, S., Design, analysis and fabrication of a new MEMS scanning device actuator 248 (2005) 503
- Eliseev, P.G., O.N. Krokhn and I.N. Zavestovskaya, Nonlinear absorption mechanism in ablation of transparent materials by high power and ultrashort laser pulses 248 (2005) 313
- Elkaim, R., see Mihailescu, I.N. 248 (2005) 344
- Englezis, A., see Batishche, S. 248 (2005) 264
- Erlacher, A., M. Ambrico, G. Perna, L. Schiavulli, T. Ligonzo, H. Jaeger and B. Ullrich, Absorption and photoconductivity properties of ZnTe thin films formed by pulsed-laser deposition on glass 248 (2005) 402
- Etchepare, J., see Scuderi, D. 248 (2005) 309
- Fazio, E., see Vlad, V.I. 248 (2005) 484
- Fazio, E., W. Ramadan, A. Petris, M. Chauvet, A. Bosco, V.I. Vlad and M. Bertolotti, Writing single-mode waveguides in lithium niobate by ultra-low intensity solitons 248 (2005) 97
- Fazzi, A., see Caricato, A.P. 248 (2005) 440
- Fazzi, A., see Ngaffo, F.F. 248 (2005) 428
- Fefer, Y., see Gurfinkel, M. 248 (2005) 62
- Fernandez, M., see Acquaviva, S. 248 (2005) 286
- Fernandez, M., see Ngaffo, F.F. 248 (2005) 428
- Ferrari, M., see Zampedri, L. 248 (2005) 3
- Fioretti, A., A. Camposeo, F. Tantussi, E. Arimondo, S. Gozzini and C. Gabbanini, Atomic lithography with barium atoms 248 (2005) 196
- Fitzgerald, C.B., see Dorneles, L.S. 248 (2005) 406
- Focsa, C., see Mihasan, C. 248 (2005) 224, 238
- Fotakis, C., see Athanassiou, A. 248 (2005) 56
- Fox, P., see Perrie, W. 248 (2005) 213
- Gabbanini, C., see Fioretti, A. 248 (2005) 196
- Galassi, C., see Craciun, F. 248 (2005) 329
- Galasso, A., see D'Alessio, L. 248 (2005) 295
- Galasso, A., see Teghil, R. 248 (2005) 304
- Galinetto, P., D. Ballarini, D. Grando and G. Samoggia, Microstructural modification of LiNbO₃ crystals induced by femtosecond laser irradiation 248 (2005) 291
- Gao, H., J. Chen, H. Xie, H. Zhu, R. Li and Z. Xu, Studying atomic-resolution by X-ray fluorescence holography 248 (2005) 71
- Gao, H., see Zhu, H. 248 (2005) 75
- Garavello, I., see Baranauskas, V. 248 (2005) 492
- Gatskevich, E., G. Ivlev, P. Prikryl, R. Černý, V. Cháb and O. Cibulka, Pulsed laser-induced phase transformations in CdTe single crystals 248 (2005) 259
- Georgiou, S., see Athanassiou, A. 248 (2005) 56
- Georgiou, S., see Rebollar, E. 248 (2005) 254
- Giannoudakos, A., see György, E. 248 (2005) 147
- Gill, M., see Perrie, W. 248 (2005) 213
- Goldoni, A., see Larciprete, R. 248 (2005) 8
- González, P., see Borrajo, J.P. 248 (2005) 355, 369
- González, P., see Conde, J.C. 248 (2005) 455, 461
- González, P., see López, E. 248 (2005) 108, 113
- González, P., see Solla, E.L. 248 (2005) 360
- Gorovets, T., see Batishche, S. 248 (2005) 264
- Gospodyn, J., see Sun, Y.W. 248 (2005) 392
- Gozzini, S., see Fioretti, A. 248 (2005) 196
- Grando, D., see Galinetto, P. 248 (2005) 291
- Grigoriu, C., see Marcu, A. 248 (2005) 466
- Guignard, M., see Mihasan, C. 248 (2005) 224
- Gurfinkel, M., M. Borenshtein, A. Margulis, S. Sade, Y. Fefer, Y. Weizman and Y. Shapira, Study of hot-carrier-induced photon emission from 90 nm Si MOSFETs 248 (2005) 62
- Gurlui, S., see Mihasan, C. 248 (2005) 224
- György, E., J. Santiso, A. Giannoudakos, M. Kompitsas, I.N. Mihailescu and D. Pantelica, Growth of Al doped ZnO thin films by a synchronized two laser system 248 (2005) 147
- Hamilton, B., see Ishii, M. 248 (2005) 14
- Hanada, Y., K. Sugioaka, I. Miyamoto and K. Midorikawa, Double-pulse irradiation by laser-induced plasma-assisted ablation (LIPAA) and mechanisms study 248 (2005) 276
- Haugen, C.J., see Dwivedi, P.K. 248 (2005) 376
- Heber, J., see Schulz-Ruhtenberg, M. 248 (2005) 190
- Hermann, J., see Bruneau, S. 248 (2005) 299
- Hess, P. and A.M. Lomonosov, Nanotechnological applications of nonlinear surface acoustic waves: Mechanism of brittle fracture 248 (2005) 123
- Higashiguchi, T., see Katto, M. 248 (2005) 365
- Hildebrand, G., see Mihailescu, I.N. 248 (2005) 344
- Horn, A., see Kreutz, E.W. 248 (2005) 66
- Hugonnot, E. and J.-P. Delville, Kinetic control of periodic surface patterning by laser photochemical deposition 248 (2005) 185
- Hugonnot, E., M.-H. Delville and J.-P. Delville, Dissymmetrization of micro-particle surface by laser-induced photochemical deposition 248 (2005) 470

- Hugonnot, E., M.-H. Delville and J.-P. Delville, Influence of the substrate/photo-active solution interaction in patterning and adhesion of photo-deposited films 248 (2005) 479
- Ihlemann, J., see Schulz-Ruhtenberg, M. 248 (2005) 190
- Iliescu, M., see Mihailescu, I.N. 248 (2005) 344
- Ishii, M. and B. Hamilton, Time transient investigation of photo-induced electron localization at atomic step edges of Si (1 1 1) 248 (2005) 14
- Ivanov, D.S., see Zhigilei, L.V. 248 (2005) 433
- Ivlev, G., see Gatskevich, E. 248 (2005) 259
- Izvekov, A.V., see Mulenko, S.A. 248 (2005) 475
- Jaeger, H., see Erlacher, A. 248 (2005) 402
- Jestin, Y., see Zampedri, L. 248 (2005) 3
- Jingguo, Z., see Baranauskas, V. 248 (2005) 492
- Kalyva, M., see Athanassiou, A. 248 (2005) 56
- Kameyama, A., see Katto, M. 248 (2005) 365
- Kanaev, A., see Bityurin, N. 248 (2005) 86
- Kasap, S.O., see Dwivedi, P.K. 248 (2005) 376
- Katto, M., K. Kurosawa, A. Yokotani, S. Kubodera, A. Kameyama, T. Higashiguchi, T. Nakayama and M. Tsukamoto, Polycrystallized hydroxyapatite coating deposited by pulsed laser deposition method at room temperature 248 (2005) 365
- Katzen, D., E. Levy and Y. Mastai, Thin films of silica-carbon nanocomposites for selective solar absorbers 248 (2005) 514
- Kieu, Q.K., see Veiko, V.P. 248 (2005) 231
- Kirsanov, A., see Alexandrov, A. 248 (2005) 181
- Klimov, A.Yu., see Dryakhlushin, V.F. 248 (2005) 200
- Kobe, S., K. Žužek, E. Sarantopoulou, Z. Samardžija, Z. Kollić and A.C. Cefalas, Nanocrystalline Sm-Fe composites fabricated by pulse laser deposition at 157 nm 248 (2005) 349
- Kobe, S., see Kollić, Z. 248 (2005) 248
- Kollić, Z., E. Sarantopoulou, A.C. Cefalas, S. Kobe, P. Argitis and K. Missiakos, Self assembled structures on fluoro-polymers induced with laser light at 157 nm 248 (2005) 248
- Kollić, Z., see Kobe, S. 248 (2005) 349
- Kompitsas, M., see György, E. 248 (2005) 147
- Kosch, U., see López, E. 248 (2005) 113
- Koughia, K., see Dwivedi, P.K. 248 (2005) 376
- Kouzmouk, A., see Batishche, S. 248 (2005) 264
- Kreutz, E.W., A. Horn and R. Poprawe, Electron excitation in glasses followed by time- and space-measuring tools 248 (2005) 66
- Krokhin, O.N., see Eliseev, P.G. 248 (2005) 313
- Kubodera, S., see Katto, M. 248 (2005) 365
- Kumagai, T., see Tsuchiya, T. 248 (2005) 118
- Kurosawa, K., see Katto, M. 248 (2005) 365
- Kursa, P., see Sun, Y.W. 248 (2005) 392
- Kuznetsov, A.I., see Bityurin, N. 248 (2005) 86
- Lakiotaki, K., see Athanassiou, A. 248 (2005) 56
- Lalayan, A.A., Formation of colloidal GaAs and CdS quantum dots by laser ablation in liquid media 248 (2005) 209
- Lalayan, A.A., Nonlinear-optical diagnostics for laser ablation and photo-heating of biotissue 248 (2005) 24
- Langford, S.C., see Avanesyan, S.M. 248 (2005) 129
- Lapsker, I., see Mirchin, N. 248 (2005) 509
- Larciprete, R., A. Goldoni, S. Lizzit and L. Petaccia, The electronic properties of carbon nanotubes studied by high resolution photoemission spectroscopy 248 (2005) 8
- Larciprete, R., see Santagata, A. 248 (2005) 19
- Latempa, R., see Parlato, L. 248 (2005) 177
- Lattante, S., see Ngaffo, F.F. 248 (2005) 428
- Leggieri, G., see Caricato, A.P. 248 (2005) 270, 440
- León, B., see Borrajo, J.P. 248 (2005) 355, 369
- León, B., see Conde, J.C. 248 (2005) 455, 461
- León, B., see López, E. 248 (2005) 108, 113
- León, B., see Solla, E.L. 248 (2005) 360
- Levy, E., see Katzen, D. 248 (2005) 514
- Li, L., see Mir-Hosseini, N. 248 (2005) 204
- Li, L., see Syed, W.U.H. 248 (2005) 518
- Li, R., see Gao, H. 248 (2005) 71
- Li, R., see Zhu, H. 248 (2005) 75
- Ligonzo, T., see Erlacher, A. 248 (2005) 402
- Lippert, T., see Bonse, J. 248 (2005) 157
- Liste, S., see Borrajo, J.P. 248 (2005) 355, 369
- Liste, S., see Solla, E.L. 248 (2005) 360
- Lizzit, S., see Larciprete, R. 248 (2005) 8
- Lomonosov, A.M., see Hess, P. 248 (2005) 123
- Longo, A., see Salvati, R. 248 (2005) 28
- López, E., S. Chiussi, P. González, J. Serra and B. León, Influence of the substrate temperature on the structure of Ge containing thin films produced by ArF laser induced chemical vapour deposition 248 (2005) 108
- López, E., S. Chiussi, U. Kosch, P. González, J. Serra, C. Serra and B. León, Compositional, structural and optical properties of Si-rich a-SiC:H thin films deposited by ArF-LCVD 248 (2005) 113
- Luby, S. and E. Majkova, Tailoring of multi-layer interfaces by pulsed laser irradiation 248 (2005) 316
- Luby, S., see Acquaviva, S. 248 (2005) 286
- Luches, A. and A. Peled, Preface 248 (2005) 1
- Luches, A., see Acquaviva, S. 248 (2005) 286
- Luches, A., see Caricato, A.P. 248 (2005) 270
- Luches, A., see Veiko, V.P. 248 (2005) 231
- Lunney, J.G., see Dorneles, L.S. 248 (2005) 406
- Lusquinos, F., see Conde, J.C. 248 (2005) 455, 461
- Majkova, E., see Acquaviva, S. 248 (2005) 286
- Majkova, E., see Luby, S. 248 (2005) 316
- Majni, G., see Acquaviva, S. 248 (2005) 286
- Majni, G., see Caricato, A.P. 248 (2005) 270
- Marcu, A., C. Grigoriu and K. Yatsui, Particles interaction with obstacles in a pulsed laser deposition system 248 (2005) 466
- Margolin, R., see Mirchin, N. 248 (2005) 509
- Margulis, A., see Gurfinkel, M. 248 (2005) 62
- Marini, C., see Acquaviva, S. 248 (2005) 218

- Marques, A.C., see Zampedri, L. 248 (2005) 3
- Martinelli, G., see Mihasan, C. 248 (2005) 224
- Martino, M., see Caricato, A.P. 248 (2005) 270
- Martino, M., see Ngaffo, F.F. 248 (2005) 428
- Martino, M., see Zampedri, L. 248 (2005) 3
- Mastai, Y., see Katzen, D. 248 (2005) 514
- Matino, F., see Arima, V. 248 (2005) 40
- Matino, F., see Thompson, J. 248 (2005) 36
- Mattarelli, M., see Zampedri, L. 248 (2005) 3
- Mayer, I., see Mihailescu, I.N. 248 (2005) 344
- McGee, F., see Dorneles, L.S. 248 (2005) 406
- McMullin, J.N., see Dwivedi, P.K. 248 (2005) 376
- Medianu, R., see Boroica, L. 248 (2005) 381
- Mele, G., see Arima, V. 248 (2005) 40
- Menegazzo, N., see Patz, T. 248 (2005) 416
- Mengucci, P., see Caricato, A.P. 248 (2005) 270
- Mescia, L., see D'Orazio, A. 248 (2005) 499
- Messersmith, P.B., see Patz, T. 248 (2005) 416
- Midorikawa, K., see Cheng, Y. 248 (2005) 172
- Midorikawa, K., see Hanada, Y. 248 (2005) 276
- Mihailescu, D., see Stamatin, L. 248 (2005) 422
- Mihailescu, I.N., P. Torricelli, A. Bigi, I. Mayer, M. Iliescu, J. Werckmann, G. Socol, F. Miroiu, F. Cuisinier, R. Elkaim and G. Hildebrand, Calcium phosphate thin films synthesized by pulsed laser deposition: Physico-chemical characterization and in vitro cell response 248 (2005) 344
- Mihailescu, I.N., see György, E. 248 (2005) 147
- Mihailescu, I.N., see Patz, T. 248 (2005) 416
- Mihailescu, I.N., see Ristoscu, C. 248 (2005) 411
- Mihailescu, I.N., see Stamatin, L. 248 (2005) 422
- Mihasan, C., M. Ziskind, B. Chazallon, C. Focsa and J.L. Destombes, Formation of large water clusters by IR laser resonant desorption of ice 248 (2005) 238
- Mihasan, C., S. Gurlui, M. Ziskind, B. Chazallon, G. Martinelli, H. Zeghlache, M. Guignard, V. Nazabal, F. Smektala and C. Focsa, Photo-excited desorption of multi-component systems: Application to chalcogenide glasses 248 (2005) 224
- Miotello, A., see Ossi, P.M. 248 (2005) 334
- Mirchin, N. and A. Peled, Photo-bleaching response in chlorophyll solutions 248 (2005) 91
- Mirchin, N. and A. Peled, Time of flight transients analysis in photo-excited molecular doped polymers 248 (2005) 79
- Mirchin, N., A. Peled, I. Baal-Zedaka, R. Margolin, M. Zagon, I. Lapsker, A. Verdyan and J. Azoulay, Photodeposited diffractive optical elements of computer generated masks 248 (2005) 509
- Mir-Hosseini, N., M.J.J. Schmidt and L. Li, Growth of patterned thin metal oxide films on glass substrates from metallic bulk sources using a Q-switched YAG laser 248 (2005) 204
- Miroiu, F., see Mihailescu, I.N. 248 (2005) 344
- Missiakos, K., see Kolli, Z. 248 (2005) 248
- Miyamoto, I., see Hanada, Y. 248 (2005) 276
- Mizaikoff, B., see Patz, T. 248 (2005) 416
- Mizuta, S., see Tsuchiya, T. 248 (2005) 118
- Moldovan, A., see Craciun, F. 248 (2005) 329
- Moldovan, A., see Stamatin, L. 248 (2005) 422
- Montagna, M., see Zampedri, L. 248 (2005) 3
- Moreau, D., see Scuderi, D. 248 (2005) 309
- Morjan, I., see Alexandrescu, R. 248 (2005) 138
- Morone, A., see D'Alessio, L. 248 (2005) 295
- Mulenko, S.A., A.V. Izvekov, Y.N. Petrov, V.P. Mygashko and V.S. Ovechko, Laser photodeposition of thin semiconductor films from iron carbonyl vapors 248 (2005) 475
- Munzar, M., see Dwivedi, P.K. 248 (2005) 376
- Mygashko, V.P., see Mulenko, S.A. 248 (2005) 475
- Nakayama, T., see Katto, M. 248 (2005) 365
- Narayan, R., see Patz, T. 248 (2005) 416
- Nazabal, V., see Mihasan, C. 248 (2005) 224
- Ngaffo, F.F., A.P. Caricato, A. Fazzi, M. Fernandez, S. Lattante, M. Martino and F. Romano, Deposition of ITO films on SiO₂ substrates 248 (2005) 428
- Nicolas, L., see Salvati, R. 248 (2005) 28
- Nikonorov, N.V., see Veiko, V.P. 248 (2005) 231
- O'Mahony, D., see Dorneles, L.S. 248 (2005) 406
- O'Neill, W., see Perrie, W. 248 (2005) 213
- Orlando, S., see Avanesyan, S.M. 248 (2005) 129
- Ossi, P.M., C.E. Bottani and A. Miotello, Pulsed laser deposition of nano-glassy carbon films 248 (2005) 334
- Oujja, M., see Rebollar, E. 248 (2005) 254
- Ovechko, V.S., see Mulenko, S.A. 248 (2005) 475
- Pantelica, D., see György, E. 248 (2005) 147
- Parisi, G.P., see Santagata, A. 248 (2005) 19
- Parlato, L., G.P. Pepe, R. Latempa, C. De Lisio, C. Altucci, P. D'Acunto, G. Peluso, A. Barone, T. Taneda and R. Sobolewski, Time-resolved photoresponse of nanometer-thick Nb/NiCu bilayers 248 (2005) 177
- Patiz, T., R. Cristescu, R. Narayan, N. Menegazzo, B. Mizaikoff, P.B. Messersmith, I. Stamatin, I.N. Mihailescu and D.B. Chrisey, Processing of mussel-adhesive protein analog copolymer thin films by matrix-assisted pulsed laser evaporation 248 (2005) 416
- Peled, A., see Luches, A. 248 (2005) 1
- Peled, A., see Mirchin, N. 248 (2005) 509, 79, 91
- Pelli, S., see Zampedri, L. 248 (2005) 3
- Peluso, G., see Parlato, L. 248 (2005) 177
- Pepe, G.P., see Parlato, L. 248 (2005) 177
- Pepe, G.P., see Salvati, R. 248 (2005) 28
- Pereira, A., see Cultrera, L. 248 (2005) 397
- Pérez-Amor, M., see Borrajo, J.P. 248 (2005) 355, 369
- Pérez-Amor, M., see Solia, E.L. 248 (2005) 360
- Perna, G., see Erlacher, A. 248 (2005) 402
- Perrie, W., A. Rushton, M. Gill, P. Fox and W. O'Neill, Femtosecond laser micro-structuring of alumina ceramic 248 (2005) 213

- Petaccia, L., see Larciprete, R. 248 (2005) 8
- Petris, A., see Fazio, E. 248 (2005) 97
- Petris, A., see Vlad, V.I. 248 (2005) 484
- Petrov, Y.N., see Mulenکو, S.A. 248 (2005) 475
- Petruzzelli, V., see D'Orazio, A. 248 (2005) 499
- Pietanza, L.D., G. Colonna, M. Capitelli,
Electron and phonon dynamics in laser
short pulses-heated metals 248 (2005) 103
- Pilipenka, U., see Batishche, S. 248 (2005) 264
- Poprawe, R., see Kreutz, E.W. 248 (2005) 66
- Portal, S., see Zampedri, L. 248 (2005) 3
- Portales, H., see Zampedri, L. 248 (2005) 3
- Poso, R., see Acquaviva, S. 248 (2005) 218
- Pouli, P., see Batishche, S. 248 (2005) 264
- Prikryl, P., see Gatskevich, E. 248 (2005) 259
- Prodan, G., see Alexandrescu, R. 248 (2005) 138
- Pronko, P.P., see Scuderi, D. 248 (2005) 309
- Prudenzano, F., see D'Orazio, A. 248 (2005) 499
- Purice, A., see Craciun, F. 248 (2005) 329
- Ramadan, W., see Fazio, E. 248 (2005) 97
- Ramos, M.M.D. and H.M.G. Correia,
Quantum modelling of photo-excited
processes 248 (2005) 450
- Ramos, M.M.D., see Vila Verde, A. 248 (2005) 446
- Rebollar, E., G. Bounos, M. Oujja, C.
Domingo, S. Georgiou and M. Castillejo,
Influence of polymer molecular weight on
the UV ablation of doped poly(methyl
methacrylate) 248 (2005) 254
- Rho, S., see Veiko, V.P. 248 (2005) 231
- Righini, G.C., see Zampedri, L. 248 (2005) 3
- Rinaldi, R., see Arima, V. 248 (2005) 40
- Ristoscu, C., C. Ducu, G. Socol, F. Craciunoiu
and I.N. Mihailescu, Structural and optical
characterization of AlN films grown by
pulsed laser deposition 248 (2005) 411
- Ristoscu, C., see Cultrera, L. 248 (2005) 397
- Robledo-Martinez, A., H. Sobral and M.
Villagrán-Muniz, Measurement of the elec-
trical size of a laser-induced plasma in a
uniform field 248 (2005) 32
- Rogov, V.V., see Dryakhlushin, V.F. 248 (2005) 200
- Romano, F., see Ngaffo, F.F. 248 (2005) 428
- Rushton, A., see Perrie, W. 248 (2005) 213
- Sade, S., see Gurfinkel, M. 248 (2005) 62
- Salvati, R., A. Longo, G. Carotenuto, S. De
Nicola, G.P. Pepe, L. Nicolais and A.
Barone, UV-vis spectroscopy for on-line
monitoring of Au nanoparticles size during
growth 248 (2005) 28
- Samardžija, Z., see Kobe, S. 248 (2005) 349
- Samoggia, G., see Galinetto, P. 248 (2005) 291
- Saniger-Blesa, J.M., see Alvarez-Zauco, E. 248 (2005) 243
- Santagata, A., A. Di Troilo, G.P. Parisi and R.
Larciprete, Space and time resolved emis-
sion spectroscopy of $\text{Sr}_2\text{FeMoO}_6$ laser
induced plasma 248 (2005) 19
- Santagata, A., see D'Alessio, L. 248 (2005) 295
- Santagata, A., see Teghil, R. 248 (2005) 304
- Santiso, J., see György, E. 248 (2005) 147
- Sapogova, N., see Alexandrov, A. 248 (2005) 181
- Sarantopoulou, E., see Kobe, S. 248 (2005) 349
- Sarantopoulou, E., see Kolliа, Z. 248 (2005) 248
- Scarisoareanu, N., see Craciun, F. 248 (2005) 329
- Schiavulli, L., see Erlacher, A. 248 (2005) 402
- Schmidt, M.J.J., see Mir-Hosseini, N. 248 (2005) 204
- Schou, J., see Amoroso, S. 248 (2005) 323
- Schulz-Ruhtenberg, M., J. Ihlemann and J.
Heber, Laser patterning of SiO₂-layers for
the fabrication of UV diffractive phase ele-
ments 248 (2005) 190
- Scuderi, D., D. Moreau, O. Albert, P.P. Pronko
and J. Etchepare, Interaction of a femtosec-
ond laser-produced plasma plume with a
time delayed pulse 248 (2005) 309
- Sentis, M., see Bruneau, S. 248 (2005) 299
- Serra, C., see López, E. 248 (2005) 113
- Serra, J., see Borrajo, J.P. 248 (2005) 355, 369
- Serra, J., see Conde, J.C. 248 (2005) 455, 461
- Serra, J., see López, E. 248 (2005) 108, 113
- Serra, J., see Solla, E.L. 248 (2005) 360
- Shapira, Y., see Gurfinkel, M. 248 (2005) 62
- Shur, V.Ya., see Veiko, V.P. 248 (2005) 231
- Siew, W.O., T.Y. Tou and K.H. Wong,
Shadowgraphy of pulsed CO₂ laser abla-
tion of polymers 248 (2005) 281
- Singh, J., Photoexcitation-induced processes in
amorphous semiconductors 248 (2005) 50
- Sit, J., see Sun, Y.W. 248 (2005) 392
- Smektala, F., see Miheșan, C. 248 (2005) 224
- Smirnova, L., see Alexandrov, A. 248 (2005) 181
- Soare, I., see Alexandrescu, R. 248 (2005) 138
- Sobolewski, R., see Parlato, L. 248 (2005) 177
- Sobral, H., see Alvarez-Zauco, E. 248 (2005) 243
- Sobral, H., see Robledo-Martinez, A. 248 (2005) 32
- Socol, G., see Mihailescu, I.N. 248 (2005) 344
- Socol, G., see Ristoscu, C. 248 (2005) 411
- Socol, G., see Stamatini, L. 248 (2005) 422
- Solis, J., see Bonse, J. 248 (2005) 151, 157
- Solla, E.L., J.P. Borrajo, P. González, J. Serra,
S. Liste, S. Chiussi, B. León and M. Pérez-
Amor, Plasma assisted pulsed laser deposi-
tion of hydroxylapatite thin films 248 (2005) 360
- Sordelet, D.J., see Teghil, R. 248 (2005) 304
- Soustov, L., see Alexandrov, A. 248 (2005) 181
- Spinelli, N., see Amoroso, S. 248 (2005) 45
- Stamatini, I., see Patz, T. 248 (2005) 416
- Stamatini, I., see Stamatini, L. 248 (2005) 422
- Stamatini, L., R. Cristescu, G. Socol, A.
Moldovan, D. Mihailescu, I. Stamatini, I.N.
Mihailescu and D.B. Chrisey, Laser
deposition of fibrinogen blood proteins
thin films by matrix assisted pulsed laser
evaporation 248 (2005) 422
- Stanca, I., see Dorneles, L.S. 248 (2005) 406
- Sturm, H., see Bonse, J. 248 (2005) 157
- Sugioka, K., see Cheng, Y. 248 (2005) 172
- Sugioka, K., see Hanada, Y. 248 (2005) 276

- Sun, Y.W., J. Gospodyn, P. Kurs, J. Sit, R.G. DeCorby and Y.Y. Tsui, Dense and porous ZnO thin films produced by pulsed laser deposition 248 (2005) 392
- Sun, Y.W., see Dwivedi, P.K. 248 (2005) 376
- Syed, W.U.H. and L. Li, Effects of wire feeding direction and location in multiple layer diode laser direct metal deposition 248 (2005) 518
- Taneda, T., see Parlato, L. 248 (2005) 177
- Tantussi, F., see Fioretti, A. 248 (2005) 196
- Tatur, H., see Batishche, S. 248 (2005) 264
- Tazzioli, F., see Cultrera, L. 248 (2005) 397
- Teghil, R., L. D'Alessio, A. De Bonis, A. Galasso, P. Villani, M. Zaccagnino, A. Santagata and D.J. Sordelet, Ultrashort pulsed laser vaporisation of icosahedral Al-Pd-Mn 248 (2005) 304
- Teghil, R., see D'Alessio, L. 248 (2005) 295
- Teo, B.S., see Yong, T.K. 248 (2005) 388
- Thompson, J., see Arima, V. 248 (2005) 40
- Thompson, J., V. Arima, F. Matino, R. Cingolani and R.I.R. Blyth, Characterisation of thin films of organic phosphorescent materials using synchrotron radiation 248 (2005) 36
- Toftmann, B., see Amoroso, S. 248 (2005) 323
- Tonchev, D., see Dwivedi, P.K. 248 (2005) 376
- Torricelli, P., see Mihailescu, I.N. 248 (2005) 344
- Tosello, C., see Zampedri, L. 248 (2005) 3
- Totou, G., see Batishche, S. 248 (2005) 264
- Tou, T.Y., see Siew, W.O. 248 (2005) 281
- Tou, T.-Y., see Yap, S.-S. 248 (2005) 340
- Tou, T.Y., see Yong, T.K. 248 (2005) 388
- Tsuchiya, T., A. Watanabe, T. Kumagai and S. Mizuta, Epitaxial growth of tin oxide films on (0 0 1) TiO₂ substrates by KrF and XeCl excimer laser annealing 248 (2005) 118
- Tsui, Y.Y., see Dwivedi, P.K. 248 (2005) 376
- Tsui, Y.Y., see Sun, Y.W. 248 (2005) 392
- Tsukamoto, M., see Katto, M. 248 (2005) 365
- Ukhau, V., see Batishche, S. 248 (2005) 264
- Ullrich, B., see Erlacher, A. 248 (2005) 402
- Vasapollo, G., see Arima, V. 248 (2005) 40
- Veiko, V.P., Q.K. Kieu, N.V. Nikonov, V.Ya. Shur, A. Luches and S. Rho, Laser-induced modification of glass-ceramics microstructure and applications 248 (2005) 231
- Velotta, R., see Amoroso, S. 248 (2005) 45
- Venkatesan, M., see Dorneles, L.S. 248 (2005) 406
- Verardi, P., see Craciun, F. 248 (2005) 329
- Verdyan, A., see Mirchin, N. 248 (2005) 509
- Vicario, C., see Cultrera, L. 248 (2005) 397
- Vila Verde, A. and M.M.D. Ramos, Modelling the influence of pore size on the response of materials to infrared lasers - An application to human enamel 248 (2005) 446
- Villagr n-Muniz, M., see Alvarez-Zauco, E. 248 (2005) 243
- Villagr n-Muniz, M., see Robledo-Martinez, A. 248 (2005) 32
- Villani, P., see D'Alessio, L. 248 (2005) 295
- Villani, P., see Teghil, R. 248 (2005) 304
- Vitiello, M., S. Amoroso, C. Altucci, C. de Lisio and X. Wang, The emission of atoms and nanoparticles during femtosecond laser ablation of gold 248 (2005) 163
- Vitiello, M., see Amoroso, S. 248 (2005) 45
- Vlad, V.I., E. Fazio, M. Bertolotti, A. Bosco and A. Petris, Laser generated soliton waveguides in photorefractive crystals 248 (2005) 484
- Vlad, V.I., see Fazio, E. 248 (2005) 97
- Voicu, I., see Alexandrescu, R. 248 (2005) 138
- Vostokov, N.V., see Dryakhlushin, V.F. 248 (2005) 200
- Wang, X., see Amoroso, S. 248 (2005) 45
- Wang, X., see Vitiello, M. 248 (2005) 163
- Watanabe, A., see Tsuchiya, T. 248 (2005) 118
- Weizman, Y., see Gurfinkel, M. 248 (2005) 62
- Werkmann, J., see Mihailescu, I.N. 248 (2005) 344
- Wiggins, S.M., see Bonse, J. 248 (2005) 151, 157
- Wong, K.H., see Siew, W.O. 248 (2005) 281
- Xie, H., see Gao, H. 248 (2005) 71
- Xie, H., see Zhu, H. 248 (2005) 75
- Xu, Z., see Gao, H. 248 (2005) 71
- Xu, Z., see Zhu, H. 248 (2005) 75
- Yakimovich, N., see Alexandrov, A. 248 (2005) 181
- Yap, S.-S. and T.-Y. Tou, Diamond-like carbon formation for various positions by pulsed laser deposition 248 (2005) 340
- Yatsui, K., see Marcu, A. 248 (2005) 466
- Yokotani, A., see Katto, M. 248 (2005) 365
- Yong, T.K., T.Y. Tou and B.S. Teo, Pulsed laser deposition of tin-doped indium oxide (ITO) on polycarbonate 248 (2005) 388
- Zaccagnino, M., see D'Alessio, L. 248 (2005) 295
- Zaccagnino, M., see Teghil, R. 248 (2005) 304
- Zagon, M., see Mirchin, N. 248 (2005) 509
- Zampedri, L., C. Tosello, H. Portales, M. Montagna, M. Mattarelli, A. Chiappini, G.C. Righini, S. Pelli, G.N. Conti, M. Martino, S. Portal, A.C. Marques, R.M. Almeida, Y. Jestin, M. Ferrari and A. Chiasera, Spectroscopic assessment of rare-earth activated planar waveguides and microcavities 248 (2005) 3
- Zavestovskaya, I.N., see Eliseev, P.G. 248 (2005) 313
- Zeghlache, H., see Mihasan, C. 248 (2005) 224
- Zhigilei, L.V. and D.S. Ivanov, Channels of energy redistribution in short-pulse laser interactions with metal targets 248 (2005) 433
- Zhu, H., J. Chen, H. Gao, H. Xie, R. Li and Z. Xu, Recent progress in femtosecond holography 248 (2005) 75
- Zhu, H., see Gao, H. 248 (2005) 71
- Ziskind, M., see Mihasan, C. 248 (2005) 224, 238
- Zu ek, K., see Kobe, S. 248 (2005) 349



ELSEVIER

Applied Surface Science 248 (2005) VIII–XXXII

applied
surface science

www.elsevier.com/locate/apsusc

Subject Index

Ablation

- Phase transitions induced by femtosecond laser pulse irradiation of indium phosphide, J. Bonse, S.M. Wiggins and J. Solis 248 (2005) 151
- Femtosecond laser-induced decomposition in triazepolymer thin films, J. Bonse, S.M. Wiggins, J. Solis, T. Lippert and H. Sturm 248 (2005) 157
- Microstructural modification of LiNbO_3 crystals induced by femtosecond laser irradiation, P. Galinetto, D. Ballarini, D. Grando and G. Samoggia 248 (2005) 291

Adhesion

- Influence of the substrate/photo-active solution interaction in patterning and adhesion of photo-deposited films, E. Hugonnot, M.-H. Delville and J.-P. Delville 248 (2005) 479

Aggregates

- Interaction of a femtosecond laser-produced plasma plume with a time delayed pulse, D. Scuderi, D. Moreau, O. Albert, P.P. Pronko and J. Etchepare 248 (2005) 309

AlB_{VI} semiconductors

- Pulsed laser-induced phase transformations in CdTe single crystals, E. Gatskevich, G. Ivlev, P. Přikryl, R. Černý, V. Cháb and O. Cibulka 248 (2005) 259

Al doped ZnO thin films

- Growth of Al doped ZnO thin films by a synchronized two laser system, E. György, J. Santiso, A. Giannoudakos, M. Kompitsas, I.N. Mihailescu and D. Pantelica 248 (2005) 147

Alcoholic reduction

- UV–vis spectroscopy for on-line monitoring of Au nanoparticles size during growth, R. Salvati, A. Longo, G. Carotenuto, S. De Nicola, G.P. Pepe, L. Nicolais and A. Barone 248 (2005) 28

AlN

- Structural and optical characterization of AlN films grown by pulsed laser deposition, C. Ristoscu, C. Ducu, G. Socol, F. Craciunoiu and I.N. Mihailescu 248 (2005) 411

Alumina

- Femtosecond laser micro-structuring of alumina ceramic, W. Perrie, A. Rushton, M. Gill, P. Fox and W. O'Neill 248 (2005) 213

Ammonia

- Pulsed laser deposition of bioactive glass films in ammonia and disilane atmospheres, J.P. Borrajo, P. González, S. Liste, J. Serra, S. Chiussi, B. León and M. Pérez-Amor 248 (2005) 369

Amorphous chalcogenide

- Rare-earth doped chalcogenide thin films fabricated by pulsed laser deposition, P.K. Dwivedi, Y.W. Sun, Y.Y. Tsui, D. Tonchev, M. Munzar, K. Koughia, C.J. Haugen, R.G. DeCorby, J.N. McMullin and S.O. Kasap 248 (2005) 376

Amorphous magnetic films

- Transfer of stoichiometry during pulsed laser ablation of multicomponent magnetic targets, S. Acquaviva, E. D'Anna, M.L. De Giorgi, M. Fernandez, A. Luches, G. Majni, S. Luby and E. Majkova 248 (2005) 286

Amorphous semiconductors

- Photoexcitation-induced processes in amorphous semiconductors, J. Singh 248 (2005) 50
- Absorption and photoconductivity properties of ZnTe thin films formed by pulsed-laser deposition on glass, A. Erlacher, M. Ambrico, G. Perna, L. Schiavulli, T. Ligonzo, H. Jaeger and B. Ullrich 248 (2005) 402

Annealing treatments

- Excimer pulsed laser deposition and annealing of YSZ nanometric films on Si substrates, A.P. Caricato, G. Barucca, A. Di Cristoforo, G. Leggieri, A. Luches, G. Majni, M. Martino and P. Mengucci 248 (2005) 270

Atom nanofabrication

- Laser controlled nanodeposition of neutral atoms, E. Arimondo 248 (2005) 167

Atom optics

- Atomic lithography with barium atoms, A. Fioretti, A. Campoese, F. Tantussi, E. Arimondo, S. Gozzini and C. Gabbanini 248 (2005) 196

Atomic force microscopy

- Deposition of ITO films on SiO₂ substrates, F.F. Ngaffo, A.P. Caricato, A. Fazzi, M. Fernandez, S. Lattante, M. Martino and F. Romano 248 (2005) 428
- Analyses of regenerative bone matrix of rat tibia after laser photo-excitation by SEM and AFM, V. Baranauskas, I. Garavello, Z. Jingguo and M.A. da Cruz-Höfling 248 (2005) 492

Atomic resolution

- Studying atomic-resolution by X-ray fluorescence holography, H. Gao, J. Chen, H. Xie, H. Zhu, R. Li and Z. Xu 248 (2005) 71

Au clusters

- UV-vis spectroscopy for on-line monitoring of Au nanoparticles size during growth, R. Salvati, A. Longo, G. Carotenuto, S. De Nicola, G.P. Pepe, L. Nicolais and A. Barone 248 (2005) 28

Backdiffusion

- Tailoring of multilayer interfaces by pulsed laser irradiation, S. Luby and E. Majkova 248 (2005) 316

Background gases

- Broadening and attenuation of UV laser ablation plumes in background gases, S. Amoruso, B. Toftmann and J. Schou 248 (2005) 323

Bandgap tailoring

- Compositional, structural and optical properties of Si-rich a-SiC:H thin films deposited by ArF-LCVD, E. López, S. Chiussi, U. Kosch, P. González, J. Serra, C. Serra and B. León 248 (2005) 113

Bioactive coatings

- Plasma assisted pulsed laser deposition of hydroxylapatite thin films, E.L. Solla, J.P. Borrajo, P. González, J. Serra, S. Liste, S. Chiussi, B. León and M. Pérez-Amor 248 (2005) 360

Bioactive glass

- Pulsed laser deposition of bioactive glass films in ammonia and disilane atmospheres, J.P. Borrajo, P. González, S. Liste, J. Serra, S. Chiussi, B. León and M. Pérez-Amor 248 (2005) 369

Biomaterials

- Plasma assisted pulsed laser deposition of hydroxylapatite thin films, E.L. Solla, J.P. Borrajo, P. González, J. Serra, S. Liste, S. Chiussi, B. León and M. Pérez-Amor 248 (2005) 360

Biomimetic

- Calcium phosphate thin films synthesized by pulsed laser deposition: Physico-chemical characterization and in vitro cell response, I.N. Mihailescu, P. Torricelli, A. Bigi, I. Mayer, M. Iliescu, J. Werckmann, G. Socol, F. Miroiu, F. Cuisinier, R. Elkaim and G. Hildebrand 248 (2005) 344

Biomorphic silicon carbide

- Pulsed laser deposition of hydroxylapatite thin films on biomorphic silicon carbide ceram-

- ics, J.P. Borrajo, J. Serra, S. Liste, P. González, S. Chiussi, B. León and M. Pérez-Amor 248 (2005) 355
- Blackbody emission**
- Interaction of a femtosecond laser-produced plasma plume with a time delayed pulse, D. Scuderi, D. Moreau, O. Albert, P.P. Pronko and J. Etchepare 248 (2005) 309
- Bone**
- Analyses of regenerative bone matrix of rat tibia after laser photo-excitation by SEM and AFM, V. Baranauskas, I. Garavello, Z. Jingguo and M. A. da Cruz-Höfling 248 (2005) 492
- Bragg reflectors**
- Spectroscopic assessment of rare-earth activated planar waveguides and microcavities, L. Zampedri, C. Tosello, H. Portales, M. Montagna, M. Mattarelli, A. Chiappini, G.C. Righini, S. Pelli, G.N. Conti, M. Martino, S. Portal, A.C. Marques, R.M. Almeida, Y. Jestin, M. Ferrari and A. Chiasera 248 (2005) 3
- Calcium phosphate**
- Calcium phosphate thin films synthesized by pulsed laser deposition: Physico-chemical characterization and in vitro cell response, I.N. Mihailescu, P. Torricelli, A. Bigi, I. Mayer, M. Iliescu, J. Werckmann, G. Socol, F. Miroiu, F. Cuisinier, R. Elkaim and G. Hildebrand 248 (2005) 344
- Canvas**
- Nd:YAG laser double wavelength ablation of pollution encrustation on marble and bonding glues on duplicated painting canvas, S. Batishche, A. Englezis, T. Gorovets, A. Kouzmouk, U. Pilipenko, P. Pouli, H. Tatur, G. Totou and V. Ukhau 248 (2005) 264
- Carbon nanotubes**
- The electronic properties of carbon nanotubes studied by high resolution photoemission spectroscopy, R. Larciprete, A. Goldoni, S. Lizzit and L. Petaccia 248 (2005) 8
- Carbon**
- Pulsed laser deposition of nano-glassy carbon films, P.M. Ossi, C.E. Bottani and A. Miotello 248 (2005) 334
- Carbonated manganese-doped hydroxyapatite**
- Calcium phosphate thin films synthesized by pulsed laser deposition: Physico-chemical characterization and in vitro cell response, I.N. Mihailescu, P. Torricelli, A. Bigi, I. Mayer, M. Iliescu, J. Werckmann, G. Socol, F. Miroiu, F. Cuisinier, R. Elkaim and G. Hildebrand 248 (2005) 344
- Carbonyl vapor**
- Laser photodeposition of thin semiconductor films from iron carbonyl vapors, S.A. Mulyenko, A.V. Izvekov, Y.N. Petrov, V.P. Mygashko and V.S. Ovechko 248 (2005) 475
- CdS**
- Formation of colloidal GaAs and CdS quantum dots by laser ablation in liquid media, A.A. Lalayan 248 (2005) 209
- CdTe**
- Pulsed laser-induced phase transformations in CdTe single crystals, E. Gatskevich, G. Ivlev, P. Prikryl, R. Černý, V. Cháb and O. Cibulka 248 (2005) 259
- Chalcogenide**
- Photo-excited desorption of multi-component systems: Application to chalcogenide glasses, C. Mihasan, S. Gurlui, M. Ziskind, B. Chazallon, G. Martinelli, H. Zeglache, M. Guignard, V. Nazabal, F. Smekta and C. Focsa 248 (2005) 224
- Chlorophyll**
- Photo-bleaching response in chlorophyll solutions, N. Mirchin and A. Peled 248 (2005) 91
- Chromate**
- Kinetic control of periodic surface patterning by laser photochemical deposition, E. Hugonnot and J.-P. Delville 248 (2005) 185

Dissymmetrization of micro-particle surface by laser-induced photochemical deposition, E. Hugonnot, M.-H. Delville and J.-P. Delville

248 (2005) 470

Influence of the substrate/photo-active solution interaction in patterning and adhesion of photo-deposited films, E. Hugonnot, M.-H. Delville and J.-P. Delville

248 (2005) 479

Clusters

Formation of large water clusters by IR laser resonant desorption of ice, C. Mihasan, M. Ziskind, B. Chazallon, C. Focsa and J.L. Destombes

248 (2005) 238

Pulsed laser deposition of nano-glassy carbon films, P.M. Ossi, C.E. Bottani and A. Miotello

248 (2005) 334

Coatings

Calcium phosphate thin films synthesized by pulsed laser deposition: Physico-chemical characterization and in vitro cell response, I.N. Mihailescu, P. Torricelli, A. Bigi, I. Mayer, M. Iliescu, J. Werckmann, G. Socol, F. Miroiu, F. Cuisinier, R. Elkaim and G. Hildebrand

248 (2005) 344

CO₂ laser

Modelling the influence of pore size on the response of materials to infrared lasers – An application to human enamel, A. Vila Verde and M. M.D. Ramos

248 (2005) 446

Colloidal quantum dots

Formation of colloidal GaAs and CdS quantum dots by laser ablation in liquid media, A.A. Lalayan

248 (2005) 209

Conducting polymer

Quantum modelling of photo-excited processes, M. M.D. Ramos and H. M.G. Correia

248 (2005) 450

Core-shell iron-carbon nanostructures

Combining resonant/non-resonant processes: Nanometer-scale iron-based material preparation via CO₂ laser pyrolysis, R. Alexandrescu, I. Morjan, I. Voicu, F. Dumitrache, L. Albu, I. Soare and G. Prodan

248 (2005) 138

Crystallization

Laser-induced modification of glass-ceramics microstructure and applications, V.P. Veiko, Q.K. Kieu, N.V. Nikonorov, V.Y. Shur, A. Luches and S. Rho

248 (2005) 231

Damage

Femtosecond laser-induced decomposition in triazenepolymer thin films, J. Bonse, S.M. Wiggins, J. Solis, T. Lippert and H. Sturm

248 (2005) 157

Darkening

Kinetics of UV-induced darkening of titanium-oxide gels, N. Biturin, A.I. Kuznetsov and A. Kanaev

248 (2005) 86

Delivery angles

Effects of wire feeding direction and location in multiple layer diode laser direct metal deposition, W.U.H. Syed and L. Li

248 (2005) 518

Dental enamel

Modelling the influence of pore size on the response of materials to infrared lasers – An application to human enamel, A. Vila Verde and M. M.D. Ramos

248 (2005) 446

Deposition on glass

Growth of patterned thin metal oxide films on glass substrates from metallic bulk sources using a Q-switched YAG laser, N. Mir-Hosseini, M.J.J. Schmidt and L. Li

248 (2005) 204

Desorption induced by photon stimulation

Formation of large water clusters by IR laser resonant desorption of ice, C. Mihasan, M. Ziskind, B. Chazallon, C. Focsa and J.L. Destombes

248 (2005) 238

Diamond-like carbon

Diamond-like carbon formation for various positions by pulsed laser deposition, S.-S. Yap and T.-Y. Tou

248 (2005) 340

Dielectric properties

- Structural and electrical characterization of PLZT 22/20/80 relaxor films obtained by PLD and RF-PLD, F. Craciun, M. Dinescu, P. Verardi, N. Scarisoreanu, A. Moldovan, A. Purice and C. Galassi 248 (2005) 329

Diffraction optical elements

- Photodeposited diffraction optical elements of computer generated masks, N. Mirchin, A. Peled, I. Baal-Zedaka, R. Margolin, M. Zagon, I. Lapsker, A. Verdyan and J. Azoulay 248 (2005) 509

Diffraction phase elements

- Laser patterning of SiO_x-layers for the fabrication of UV diffraction phase elements, M. Schulz-Ruhtenberg, J. Ihlemann and J. Heber 248 (2005) 190

Direct metal deposition

- Effects of wire feeding direction and location in multiple layer diode laser direct metal deposition, W.U.H. Syed and L. Li 248 (2005) 518

Direction and placement

- Effects of wire feeding direction and location in multiple layer diode laser direct metal deposition, W.U.H. Syed and L. Li 248 (2005) 518

Disilane

- Pulsed laser deposition of bioactive glass films in ammonia and disilane atmospheres, J.P. Borrajo, P. González, S. Liste, J. Serra, S. Chiussi, B. León and M. Pérez-Amor 248 (2005) 369

DOE

- Photodeposited diffraction optical elements of computer generated masks, N. Mirchin, A. Peled, I. Baal-Zedaka, R. Margolin, M. Zagon, I. Lapsker, A. Verdyan and J. Azoulay 248 (2005) 509

Double-pulse irradiation

- Double-pulse irradiation by laser-induced plasma-assisted ablation (LIPAA) and mechanisms study, Y. Hanada, K. Sugioka, I. Miyamoto and K. Midorikawa 248 (2005) 276

Droplets

- Particles interaction with obstacles in a pulsed laser deposition system, A. Marcu, C. Grigoriu and K. Yatsui 248 (2005) 466

Electron

- Electron and phonon dynamics in laser short pulses-heated metals, L.D. Pietanza, G. Colonna and M. Capitelli 248 (2005) 103

Electron doping

- The electronic properties of carbon nanotubes studied by high resolution photoemission spectroscopy, R. Larciprete, A. Goldoni, S. Lizzit and L. Petaccia 248 (2005) 8

Electron microscopy

- Excimer pulsed laser deposition and annealing of YSZ nanometric films on Si substrates, A.P. Caricato, G. Barucca, A. Di Cristoforo, G. Leggieri, A. Luches, G. Majni, M. Martino and P. Mengucci 248 (2005) 270

Ellipsometry

- Structural and optical characterization of AlN films grown by pulsed laser deposition, C. Ristoscu, C. Ducu, G. Socol, F. Craciunoiu and I.N. Mihailescu 248 (2005) 411

Energy - dependent

- Electron and phonon dynamics in laser short pulses-heated metals, L.D. Pietanza, G. Colonna and M. Capitelli 248 (2005) 103

Epitaxial growth

- Epitaxial growth of tin oxide films on (0 0 1) TiO₂ substrates by KrF and XeCl excimer laser annealing, T. Tsuchiya, A. Watanabe, T. Kumagai and S. Mizuta 248 (2005) 118
- Finite elements analysis of heteroepitaxial SiGe layers grown by excimer laser, J.C. Conde, P. González, F. Lusquiños, S. Chiussi, J. Serra and B. León 248 (2005) 461

Er:YAG laser

- Modelling the influence of pore size on the response of materials to infrared lasers - An application to human enamel, A. Vila Verde and M. M.D. Ramos 248 (2005) 446

Ethylene

- Combining resonant/non-resonant processes: Nanometer-scale iron-based material

- preparation via CO₂ laser pyrolysis, R. Alexandrescu, I. Morjan, I. Voicu, F. Dumitrache, L. Albu, I. Soare and G. Prodan 248 (2005) 138
- Excimer laser**
- Epitaxial growth of tin oxide films on (0 0 1) TiO₂ substrates by KrF and XeCl excimer laser annealing, T. Tsuchiya, A. Watanabe, T. Kumagai and S. Mizuta 248 (2005) 118
- Excimer lasers**
- Analytical and numerical calculations of the temperature distribution in Si and Ge targets irradiated by excimer lasers, J.C. Conde, P. González, F. Lusquinos, S. Chiussi, J. Serra and B. León 248 (2005) 455
- Extinction coefficient**
- A computer program for determination of thin films thickness and optical constants, A.P. Caricato, A. Fazzi and G. Leggieri 248 (2005) 440
- Femtosecond holography**
- Recent progress in femtosecond holography, H. Zhu, J. Chen, H. Gao, H. Xie, R. Li and Z. Xu 248 (2005) 75
- Femtosecond laser ablation**
- Femtosecond laser micro-structuring of alumina ceramic, W. Perrie, A. Rushton, M. Gill, P. Fox and W. O'Neill 248 (2005) 213
- Ultra-fast laser ablation applied to deep-drilling of metals, S. Bruneau, J. Hermann, G. Dumitru, M. Sentis and E. Axente 248 (2005) 299
- Interaction of a femtosecond laser-produced plasma plume with a time delayed pulse, D. Scuderi, D. Moreau, O. Albert, P.P. Pronko and J. Etchepare 248 (2005) 309
- Femtosecond laser pulse irradiation**
- Phase transitions induced by femtosecond laser pulse irradiation of indium phosphide, J. Bonse, S.M. Wiggins and J. Solis 248 (2005) 151
- Femtosecond laser-induced decomposition in triazepolymer thin films, J. Bonse, S.M. Wiggins, J. Solis, T. Lippert and H. Sturm 248 (2005) 157
- Femtosecond laser pulse**
- Point defect production by ultrafast laser irradiation of alkali-containing silica glasses and alkali halide single crystals, S.M. Avanesyan, S. Orlando, S.C. Langford and J.T. Dickinson 248 (2005) 129
- Nonlinear absorption mechanism in ablation of transparent materials by high power and ultrashort laser pulses, P.G. Eliseev, O.N. Krokhin and I.N. Zavestovskaya 248 (2005) 313
- Femtosecond laser**
- Microfabrication of 3D hollow structures embedded in glass by femtosecond laser for Lab-on-a-chip applications, Y. Cheng, K. Sugioka and K. Midorikawa 248 (2005) 172
- Double-pulse irradiation by laser-induced plasma-assisted ablation (LIPAA) and mechanisms study, Y. Hanada, K. Sugioka, I. Miyamoto and K. Midorikawa 248 (2005) 276
- Microstructural modification of LiNbO₃ crystals induced by femtosecond laser irradiation, P. Galinetto, D. Ballarini, D. Grando and G. Samoggia 248 (2005) 291
- Femtosecond spectral holography**
- Recent progress in femtosecond holography, H. Zhu, J. Chen, H. Gao, H. Xie, R. Li and Z. Xu 248 (2005) 75
- Ferromagnetic semiconductor**
- Structural and compositional analysis of transition-metal-doped ZnO and GaN PLD thin films, L.S. Dorneles, D. O'Mahony, C.B. Fitzgerald, F. McGee, M. Venkatesan, I. Stanca, J.G. Lunney and J.M.D. Coey 248 (2005) 406
- Fibrinogen**
- Laser deposition of fibrinogen blood proteins thin films by matrix assisted pulsed laser evaporation, L. Stamatini, R. Cristescu, G. Socol, A. Moldovan, D. Mihaiescu, I. Stamatini, I.N. Mihaiescu and D.B. Chrisey 248 (2005) 422
- Films**
- Structural and electrical characterization of PLZT 22/20/80 relaxor films obtained by PLD and RF-PLD, F. Craciun, M. Dinescu, P. Verardi, N. Scarisoreanu, A. Moldovan, A. Purice and C. Galassi 248 (2005) 329

Finite elements method

- Analytical and numerical calculations of the temperature distribution in Si and Ge targets irradiated by excimer lasers, J.C. Conde, P. González, F. Lusquinos, S. Chiussi, J. Serra and B. León 248 (2005) 455
- Finite elements analysis of heteroepitaxial SiGe layers grown by excimer laser, J.C. Conde, P. González, F. Lusquinos, S. Chiussi, J. Serra and B. León 248 (2005) 461

Formation-growth mechanism

- UV-vis spectroscopy for on-line monitoring of Au nanoparticles size during growth, R. Salvati, A. Longo, G. Carotenuto, S. De Nicola, G.P. Pepe, L. Nicolais and A. Barone 248 (2005) 28

fs- and ps-laser radiation

- Electron excitation in glasses followed by time- and space-measuring tools, E.W. Kreutz, A. Horn and R. Poprawe 248 (2005) 66

FTIR in reflection

- Structural and optical characterization of AlN films grown by pulsed laser deposition, C. Ristoscu, C. Ducu, G. Socol, F. Craciunoiu and I.N. Mihailescu 248 (2005) 411

FTIR

- Influence of the substrate temperature on the structure of Ge containing thin films produced by ArF laser induced chemical vapour deposition, E. López, S. Chiussi, P. González, J. Serra and B. León 248 (2005) 108
- Compositional, structural and optical properties of Si-rich a-SiC:H thin films deposited by ArF-LCVD, E. López, S. Chiussi, U. Kosch, P. González, J. Serra, C. Serra and B. León 248 (2005) 113

FT-IR

- Pulsed laser deposition of bioactive glass films in ammonia and disilane atmospheres, J.P. Borrajo, P. González, S. Liste, J. Serra, S. Chiussi, B. León and M. Pérez-Amor 248 (2005) 369

Fullerene

- Polymerization of C₆₀ fullerene thin films by UV pulsed laser irradiation, E. Alvarez-

- Zauco, H. Sobral, E.V. Basiuk, J.M. Saniger-Blesa and M. Villagrán-Muniz 248 (2005) 243

Fulleropyrrolidines

- Characterization of functionalised porphyrin films using synchrotron radiation, V. Arima, F. Matino, J. Thompson, R. Del Sole, G. Mele, G. Vasapollo, R. Cingolani, R. Rinaldi and R.I.R. Blyth 248 (2005) 40

GaAs

- Formation of colloidal GaAs and CdS quantum dots by laser ablation in liquid media, A.A. Lalayan 248 (2005) 209

Ge containing films

- Influence of the substrate temperature on the structure of Ge containing thin films produced by ArF laser induced chemical vapour deposition, E. López, S. Chiussi, P. González, J. Serra and B. León 248 (2005) 108

Glass ceramics

- Laser-induced modification of glass-ceramics microstructure and applications, V.P. Veiko, Q.K. Kieu, N.V. Nikonorov, V.Y. Shur, A. Luches and S. Rho 248 (2005) 231
- Glass and glass ceramic materials obtained by pulsed laser deposition in the BaO-TiO₂-B₂O₃ system, L. Boroica, R. Medianu, M. Dinescu and I. Boroica 248 (2005) 381

Glass

- Glass and glass ceramic materials obtained by pulsed laser deposition in the BaO-TiO₂-B₂O₃ system, L. Boroica, R. Medianu, M. Dinescu and I. Boroica 248 (2005) 381

Glasses

- Electron excitation in glasses followed by time- and space-measuring tools, E.W. Kreutz, A. Horn and R. Poprawe 248 (2005) 66

Glue

- Nd:YAG laser double wavelength ablation of pollution encrustation on marble and bond-

- ing glues on duplicated painting canvas, S. Batishche, A. Englezis, T. Gorovets, A. Kouzmouk, U. Pilipenka, P. Pouli, H. Tatur, G. Totou and V. Ukhau 248 (2005) 264
- Gold nanoparticles**
- UV-initiated growth of gold nanoparticles in PMMA matrix, A. Alexandrov, L. Smirnova, N. Yakimovich, N. Sapogova, L. Soustov, A. Kirsanov and N. Bityurin 248 (2005) 181
- Grazing incidence X-ray diffraction**
- Excimer pulsed laser deposition and annealing of YSZ nanometric films on Si substrates, A.P. Caricato, G. Barucca, A. Di Cristoforo, G. Leggieri, A. Luches, G. Majni, M. Martino and P. Mengucci 248 (2005) 270
- Growth kinetics**
- UV-initiated growth of gold nanoparticles in PMMA matrix, A. Alexandrov, L. Smirnova, N. Yakimovich, N. Sapogova, L. Soustov, A. Kirsanov and N. Bityurin 248 (2005) 181
- Heat transfer**
- Channels of energy redistribution in short-pulse laser interactions with metal targets, L.V. Zhigilei and D.S. Ivanov 248 (2005) 433
- High power diode laser**
- Effects of wire feeding direction and location in multiple layer diode laser direct metal deposition, W.U.H. Syed and L. Li 248 (2005) 518
- Hot carrier luminescence**
- Study of hot-carrier-induced photon emission from 90 nm Si MOSFETs, M. Gurfinkel, M. Borenshtein, A. Margulis, S. Sade, Y. Fefer, Y. Weizman and Y. Shapira 248 (2005) 62
- Hydroxyapatite**
- Poly-crystallized hydroxyapatite coating deposited by pulsed laser deposition method at room temperature, M. Katto, K. Kurosawa, A. Yokotani, S. Kubodera, A. Kameyama, T. Higashiguchi, T. Nakayama and M. Tsukamoto 248 (2005) 365
- Hydroxylapatite**
- Pulsed laser deposition of hydroxylapatite thin films on biomorphic silicon carbide ceramics, J.P. Borrajo, J. Serra, S. Liste, P. González, S. Chiussi, B. León and M. Pérez-Amor 248 (2005) 355
- Plasma assisted pulsed laser deposition of hydroxylapatite thin films, E.L. Solla, J.P. Borrajo, P. González, J. Serra, S. Liste, S. Chiussi, B. León and M. Pérez-Amor 248 (2005) 360
- Impulsive fracture**
- Nanotechnological applications of nonlinear surface acoustic waves: Mechanism of brittle fracture, P. Hess and A.M. Lomonosov 248 (2005) 123
- Indium phosphide**
- Phase transitions induced by femtosecond laser pulse irradiation of indium phosphide, J. Bonse, S.M. Wiggins and J. Solis 248 (2005) 151
- Indium tin oxide**
- Pulsed laser deposition of tin-doped indium oxide (ITO) on polycarbonate, T.K. Yong, T.Y. Tou and B.S. Teo 248 (2005) 388
- Deposition of ITO films on SiO₂ substrates, F. F. Ngaffo, A. P. Caricato, A. Fazzi, M. Fernandez, S. Lattante, M. Martino and F. Romano 248 (2005) 428
- Insulator electrical transport**
- Time of flight transients analysis in photo-excited molecular doped polymers, N. Mirchin and A. Peled 248 (2005) 79
- Interaction phenomena**
- Electron excitation in glasses followed by time- and space-measuring tools, E.W. Kreutz, A. Horn and R. Poprawe 248 (2005) 66
- Interfaces**
- Tailoring of multilayer interfaces by pulsed laser irradiation, S. Luby and E. Majkova 248 (2005) 316
- Intermixing**
- Tailoring of multilayer interfaces by pulsed laser irradiation, S. Luby and E. Majkova 248 (2005) 316

Ion probe

- Characterization of LaMnO_3 laser ablation in oxygen by ion probe and optical emission spectroscopy, S. Amoruso, R. Bruzzese, R. Velotta, N. Spinelli, M. Vitiello and X. Wang 248 (2005) 45

 γ -Iron oxide nanoparticles

- Combining resonant/non-resonant processes: Nanometer-scale iron-based material preparation via CO_2 laser pyrolysis, R. Alexandrescu, I. Morjan, I. Voicu, F. Dumitrache, L. Albu, I. Soare and G. Prodan 248 (2005) 138

Iridium complexes

- Characterisation of thin films of organic phosphorescent materials using synchrotron radiation, J. Thompson, V. Arima, F. Matino, R. Cingolani and R.L.R. Blyth 248 (2005) 36

IR-UV combination

- Nd:YAG laser double wavelength ablation of pollution encrustation on marble and bonding glues on duplicated painting canvas, S. Batishche, A. Englezis, T. Gorovets, A. Kouzmouk, U. Pilipenka, P. Pouli, H. Tatur, G. Totou and V. Ukhau 248 (2005) 264

Iron pentacarbonyl

- Combining resonant/non-resonant processes: Nanometer-scale iron-based material preparation via CO_2 laser pyrolysis, R. Alexandrescu, I. Morjan, I. Voicu, F. Dumitrache, L. Albu, I. Soare and G. Prodan 248 (2005) 138

KFM

- Time transient investigation of photo-induced electron localization at atomic step edges of Si (1 1 1), M. Ishii and B. Hamilton 248 (2005) 14

KrF

- Epitaxial growth of tin oxide films on (0 0 1) TiO_2 substrates by KrF and XeCl excimer laser annealing, T. Tsuchiya, A. Watanabe, T. Kumagai and S. Mizuta 248 (2005) 118

Lab-on-a-chip

- Microfabrication of 3D hollow structures embedded in glass by femtosecond laser for Lab-on-a-chip applications, Y. Cheng, K. Sugioka and K. Midorikawa 248 (2005) 172

Laser ablation

- Characterization of LaMnO_3 laser ablation in oxygen by ion probe and optical emission spectroscopy, S. Amoruso, R. Bruzzese, R. Velotta, N. Spinelli, M. Vitiello and X. Wang 248 (2005) 45
- Ultrashort pulsed laser vaporisation of icosahedral Al-Pd-Mn, R. Teghil, L. D'Alessio, A.D. Bonis, A. Galasso, P. Villani, M. Zaccagnino, A. Santagata and D.J. Sordet 248 (2005) 304
- The emission of atoms and nanoparticles during femtosecond laser ablation of gold, M. Vitiello, S. Amoruso, C. Altucci, C. de Lisio and X. Wang 248 (2005) 163
- Laser patterning of SiO_x -layers for the fabrication of UV diffractive phase elements, M. Schulz-Ruhtenberg, J. Ihlemann and J. Heber 248 (2005) 190
- Growth of patterned thin metal oxide films on glass substrates from metallic bulk sources using a Q-switched YAG laser, N. Mir-Hosseini, M.J.J. Schmidt and L. Li 248 (2005) 204
- Formation of colloidal GaAs and CdS quantum dots by laser ablation in liquid media, A.A. Lalayan 248 (2005) 209
- Influence of polymer molecular weight on the UV ablation of doped poly(methyl methacrylate), E. Rebollar, G. Bounos, M. Oujja, C. Domingo, S. Georgiou and M. Castillejo 248 (2005) 254
- Rare-earth doped chalcogenide thin films fabricated by pulsed laser deposition, P.K. Dwivedi, Y.W. Sun, Y.Y. Tsui, D. Tonchev, M. Munzar, K. Koughia, C.J. Haugen, R.G. DeCorby, J.N. McMullin and S.O. Kasap 248 (2005) 376
- Characterisation of ultrashort pulse laser ablation of SmBaCuO , L. D'Alessio, A. De Bonis, A. Galasso, A. Morone, A. Santagata, R. Teghil, P. Villani and M. Zaccagnino 248 (2005) 295
- Nonlinear absorption mechanism in ablation of transparent materials by high power and ultrashort laser pulses, P.G. Eliseev, O.N. Krokhin and I.N. Zavestovskaya 248 (2005) 313
- Broadening and attenuation of UV laser ablation plumes in background gases, S. Amoruso, B. Toftmann and J. Schou 248 (2005) 323
- Pulsed laser deposition of hydroxylapatite thin films on biomorphic silicon carbide ceramics, J.P. Borrajo, J. Serra, S. Liste, P. González, S. Chiussi, B. León and M. Pérez-Amor 248 (2005) 355

Deposition of ITO films on SiO₂ substrates,
F. F. Ngaffo, A. P. Caricato, A. Fazzi,
M. Fernandez, S. Lattante, M. Martino and
F. Romano

248 (2005) 428

Modelling the influence of pore size on the
response of materials to infrared lasers –
An application to human enamel, A. Vila
Verde and M. M.D. Ramos

248 (2005) 446

Laser amorphization

Laser-induced modification of glass–ceramics
microstructure and applications, V.P.
Veiko, Q.K. Kieu, N.V. Nikonorov, V.Y.
Shur, A. Luches and S. Rho

248 (2005) 231

Laser applications

A support of restoration intervention of the
bust of St. Gregory the Armenian: Compositional
investigations by laser
induced breakdown spectroscopy, S.
Acquaviva, M.L. De Giorgi, C. Marini and
R. Poso

248 (2005) 218

Laser cleaning

Nd:YAG laser double wavelength ablation of
pollution encrustation on marble and bonding
glues on duplicated painting canvas, S.
Batisheche, A. Englezis, T. Gorovets, A.
Kouzmouk, U. Pilipenka, P. Pouli, H.
Tatur, G. Totou and V. Ukhau

248 (2005) 264

Laser deposition

Ultrashort pulsed laser vaporisation of icosahedral
Al–Pd–Mn, R. Teghil, L. D'Alessio,
A. De Bonis, A. Galasso, P. Villani,
M. Zaccagnino, A. Santagata and D.J.
Sordelet

248 (2005) 304

Growth of Al doped ZnO thin films by a syn-
chronized two laser system, E. György, J.
Santiso, A. Giannoudakos, M. Kompitsas,
I.N. Mihailescu and D. Pantelica

248 (2005) 147

Growth of patterned thin metal oxide films on
glass substrates from metallic bulk sources
using a Q-switched YAG laser, N. Mir-
Hosseini, M.J.J. Schmidt and L. Li

248 (2005) 204

Pulsed laser deposition of Mg thin films on Cu
substrates for photocathode applications,
L. Cultrera, A. Pereira, C. Ristoscu, A.
Clozza, F. Tazzioli and C. Vicario

248 (2005) 397

Laser photodeposition of thin semiconductor
films from iron carbonyl vapors, S.A.
Mulencko, A.V. Izvekov, Y.N. Petrov, V.P.
Mygashko and V.S. Ovechko

248 (2005) 475

Laser desorption

Photo-excited desorption of multi-component
systems: Application to chalcogenide
glasses, C. Mihean, S. Gurlui, M. Ziskind,
B. Chazallon, G. Martinelli, H. Zeghlache,
M. Guignard, V. Nazabal, F. Smektala and
C. Focsa

248 (2005) 224

Laser energy redistribution

Channels of energy redistribution in short-
pulse laser interactions with metal targets,
L.V. Zhigilei and D.S. Ivanov

248 (2005) 433

Laser induced breakdown spectroscopy

A support of restoration intervention of the bust
of St. Gregory the Armenian: Compositional
investigations by laser induced breakdown
spectroscopy, S. Acquaviva, M.L. De Giorgi,
C. Marini and R. Poso

248 (2005) 218

Laser induced plasma diagnostics

Space and time resolved emission spec-
troscopy of Sr₂FeMoO₆ laser induced plas-
ma, A. Santagata, A. Di Trollo, G.P. Parisi
and R. Larciprete

248 (2005) 19

Laser interactions

Channels of energy redistribution in short-
pulse laser interactions with metal targets,
L.V. Zhigilei and D.S. Ivanov

248 (2005) 433

Laser irradiation

Pulsed laser-induced phase transformations in
CdTe single crystals, E. Gatskevich, G. Ivlev,
P. Příkryl, R. Černý, V. Cháb and O. Cibulka

248 (2005) 259

Laser manipulation

Laser controlled nanodeposition of neutral
atoms, E. Arimondo

248 (2005) 167

Laser melting

Channels of energy redistribution in short-
pulse laser interactions with metal targets,
L.V. Zhigilei and D. S. Ivanov

248 (2005) 433

Laser pyrolysis

- Combining resonant/non-resonant processes:
Nanometer-scale iron-based material preparation via CO₂ laser pyrolysis, R. Alexandrescu, I. Morjan, I. Voicu, F. Dumitrache, L. Albu, I. Soare and G. Prodan 248 (2005) 138

Laser

- Photoswitches operating upon ns pulsed laser irradiation, A. Athanassiou, K. Lakiotaki, M. Kalyva, S. Georgiou and C. Fotakis 248 (2005) 56
- Kinetic control of periodic surface patterning by laser photochemical deposition, E. Hugonnot and J.-P. Delville 248 (2005) 185
- Polymerization of C₆₀ fullerene thin films by UV pulsed laser irradiation, E. Alvarez-Zauco, H. Sobral, E.V. Basiuk, J.M. Saniger-Blesa and M. Villagrán-Muniz 248 (2005) 243
- Dissymmetrization of micro-particle surface by laser-induced photochemical deposition, E. Hugonnot, M.-H. Delville and J.-P. Delville 248 (2005) 470
- Influence of the substrate/photo-active solution interaction in patterning and adhesion of photo-deposited films, E. Hugonnot, M.-H. Delville and J.-P. Delville 248 (2005) 479

157 nm laser

- Self assembled structures on fluoro-polymers induced with laser light at 157 nm, Z. Kollia, E. Sarantopoulou, A.C. Cefalas, S. Kobe, P. Argitis and K. Missiakos 248 (2005) 248

Laser-induced healing

- Analyses of regenerative bone matrix of rat tibia after laser photo-excitation by SEM and AFM, V. Baranauskas, I. Garavello, Z. Jingguo and M. A. d. Cruz-Höfling 248 (2005) 492

Laser-induced phase transitions

- Phase transitions induced by femtosecond laser pulse irradiation of indium phosphide, J. Bonse, S.M. Wiggins and J. Solis 248 (2005) 151
- Femtosecond laser-induced decomposition in triazenepolymer thin films, J. Bonse, S.M. Wiggins, J. Solis, T. Lippert and H. Sturm 248 (2005) 157

Laser-induced plasma

- Ultra-fast laser ablation applied to deep-drilling of metals, S. Bruneau, J. Hermann, G. Dumitru, M. Sentis and E. Axente 248 (2005) 299

Laser-induced plasma-assisted ablation (LIPAA)

- Double-pulse irradiation by laser-induced plasma-assisted ablation (LIPAA) and mechanisms study, Y. Hanada, K. Sugioka, I. Miyamoto and K. Midorikawa 248 (2005) 276

Laser-induced plasmas

- Measurement of the electrical size of a laser-induced plasma in a uniform field, A. Robledo-Martinez, H. Sobral and M. Villagrán-Muniz 248 (2005) 32

Laser-induced stresses

- Channels of energy redistribution in short-pulse laser interactions with metal targets, L.V. Zhigilei and D.S. Ivanov 248 (2005) 433

LCVD

- Influence of the substrate temperature on the structure of Ge containing thin films produced by ArF laser induced chemical vapour deposition, E. López, S. Chiussi, P. González, J. Serra and B. León 248 (2005) 108
- Compositional, structural and optical properties of Si-rich a-SiC:H thin films deposited by ArF-LCVD, E. López, S. Chiussi, U. Kosch, P. González, J. Serra, C. Serra and B. León 248 (2005) 113

LED

- Quantum modelling of photo-excited processes, M. M.D. Ramos and H.M.G. Correia 248 (2005) 450

Lithium niobate

- Microstructural modification of LiNbO₃ crystals induced by femtosecond laser irradiation, P. Galinetto, D. Ballarini, D. Grando and G. Samoggia 248 (2005) 291

Lithography

- Atomic lithography with barium atoms, A. Fioretti, A. Campoese, F. Tantussi, E. Arimondo, S. Gozzini and C. Gabbanini 248 (2005) 196

Local heating

- Laser-induced modification of glass-ceramics microstructure and applications, V.P. Veiko, Q.K. Kieu, N.V. Nikonorov, V.Y. Shur, A. Luches and S. Rho 248 (2005) 231

Luminescence

- Spectroscopic assessment of rare-earth activated planar waveguides and microcavities, L. Zampedri, C. Tosello, H. Portales, M. Montagna, M. Mattarelli, A. Chiappini, G. C. Righini, S. Pelli, G.N. Conti, M. Martino, S. Portal, A.C. Marques, R.M. Almeida, Y. Jestin, M. Ferrari and A. Chiasera 248 (2005) 3
- Formation of colloidal GaAs and CdS quantum dots by laser ablation in liquid media, A.A. Lalayan 248 (2005) 209

Magnetron-sputtering deposition

- Glass and glass ceramic materials obtained by pulsed laser deposition in the $\text{BaO-TiO}_2\text{-B}_2\text{O}_3$ system, L. Boroica, R. Medianu, M. Dinescu and I. Boroica 248 (2005) 381

Manganites

- Characterization of LaMnO_3 laser ablation in oxygen by ion probe and optical emission spectroscopy, S. Amoruso, R. Bruzzese, R. Velotta, N. Spinelli, M. Vitiello and X. Wang 248 (2005) 45

Marble

- Nd:YAG laser double wavelength ablation of pollution encrustation on marble and bonding glues on duplicated painting canvas, S. Batishche, A. Englezis, T. Gorovets, A. Kouzmouk, U. Pilipenka, P. Pouli, H. Tatur, G. Totou and V. Ukhau 248 (2005) 264

Matrix assisted pulsed laser evaporation

- Laser deposition of fibrinogen blood proteins thin films by matrix assisted pulsed laser evaporation, L. Stamatini, R. Cristescu, G. Socol, A. Moldovan, D. Mihaiescu, I. Stamatini, I.N. Mihaiescu and D.B. Chrisey 248 (2005) 422

Matrix-assisted pulsed laser evaporation

- Processing of mussel-adhesive protein analog copolymer thin films by matrix-assisted pulsed laser evaporation, T. Patz, R. Cristescu, R. Narayan, N. Menegazzo, B. Mizaikoff, P.B. Messersmith, I. Stamatini, I.N. Mihaiescu and D.B. Chrisey 248 (2005) 416

Melting

- Phase transitions induced by femtosecond laser pulse irradiation of indium phosphide, J. Bonse, S.M. Wiggins and J. Solis 248 (2005) 151

MEMS actuator

- Design, analysis and fabrication of a new MEMS scanning device actuator, S. Eliahou-Niv 248 (2005) 503

Mesosopic modelling of composites

- Modelling the influence of pore size on the response of materials to infrared lasers – An application to human enamel, A. Vila Verde and M.M.D. Ramos 248 (2005) 446

Metal work conservation

- A support of restoration intervention of the bust of St. Gregory the Armenian: Compositional investigations by laser induced breakdown spectroscopy, S. Acquaviva, M.L. De Giorgi, C. Marini and R. Poso 248 (2005) 218

Metallic wire

- Effects of wire feeding direction and location in multiple layer diode laser direct metal deposition, W.U.H. Syed and L. Li 248 (2005) 518

Mg thin films

- Pulsed laser deposition of Mg thin films on Cu substrates for photocathode applications, L. Cultrera, A. Pereira, C. Ristoscu, A. Clozza, F. Tazzioli and C. Vicario 248 (2005) 397

3D microfabrication

- Microfabrication of 3D hollow structures embedded in glass by femtosecond laser for Lab-on-a-chip applications, Y. Cheng, K. Sugioka and K. Midorikawa 248 (2005) 172

Microcavities

- Spectroscopic assessment of rare-earth activated planar waveguides and microcavities, L. Zampedri, C. Tosello, H. Portales, M. Montagna, M. Mattarelli, A. Chiappini,

- G.C. Righini, S. Pelli, G.N. Conti, M. Martino, S. Portal, A.C. Marques, R.M. Almeida, Y. Jestin, M. Ferrari and A. Chiasera 248 (2005) 3
- Micro-machining**
- Femtosecond laser micro-structuring of alumina ceramic, W. Perrie, A. Rushton, M. Gill, P. Fox and W. O'Neill 248 (2005) 213
- Micromachining**
- Ultra-fast laser ablation applied to deep-drilling of metals, S. Bruneau, J. Hermann, G. Dumitru, M. Sentis and E. Axente 248 (2005) 299
- Micro-optics**
- Laser-induced modification of glass-ceramics microstructure and applications, V.P. Veiko, Q.K. Kieu, N.V. Nikonorov, V.Y. Shur, A. Luches and S. Rho 248 (2005) 231
- Microstructured optical fibre**
- Design of double-clad ytterbium-doped microstructured fibre laser, A. D'Orazio, M. De Sario, L. Mescia, V. Petruzzelli and F. Prudeniano 248 (2005) 499
- Mie theory**
- UV-initiated growth of gold nanoparticles in PMMA matrix, A. Alexandrov, L. Smirnova, N. Yakimovich, N. Sapogova, L. Soustov, A. Kirsanov and N. Bityurin 248 (2005) 181
- MOD**
- Epitaxial growth of tin oxide films on (0 0 1) TiO_2 substrates by KrF and XeCl excimer laser annealing, T. Tsuchiya, A. Watanabe, T. Kumagai and S. Mizuta 248 (2005) 118
- Modeling**
- Kinetics of UV-induced darkening of titanium-oxide gels, N. Bityurin, A.I. Kuznetsov and A. Kanaev 248 (2005) 86
- Modelling**
- Design of double-clad ytterbium-doped microstructured fibre laser, A. D'Orazio, M. De Sario, L. Mescia, V. Petruzzelli and F. Prudeniano 248 (2005) 499
- Molecular doped polymer (MDP)**
- Time of flight transients analysis in photo-excited molecular doped polymers, N. Mirchin and A. Peled 248 (2005) 79
- Molecular dynamics**
- Channels of energy redistribution in short-pulse laser interactions with metal targets, L.V. Zhigilei and D.S. Ivanov 248 (2005) 433
- Molten front**
- Shadowgraphy of pulsed CO_2 laser ablation of polymers, W.O. Siew, T.Y. Tou and K.H. Wong 248 (2005) 281
- Morphology**
- Nanocrystalline Sm-Fe composites fabricated by pulse laser deposition at 157 nm, S. Kobe, K. Šužek, E. Sarantopoulou, Z. Samardžija, Z. Kollia and A.C. Cefalas 248 (2005) 349
- MOSFET**
- Study of hot-carrier-induced photon emission from 90 nm Si MOSFETs, M. Gurfinkel, M. Borenshtein, A. Margulis, S. Sade, Y. Fefer, Y. Weizman and Y. Shapira 248 (2005) 62
- Multi-component systems**
- Photo-excited desorption of multi-component systems: Application to chalcogenide glasses, C. Mihean, S. Gurlui, M. Ziskind, B. Chazallon, G. Martinelli, H. Zeghlache, M. Guignard, V. Nazabal, F. Smektala and C. Focsa 248 (2005) 224
- Multilayers**
- Tailoring of multilayer interfaces by pulsed laser irradiation, S. Luby and E. Majkova 248 (2005) 316
- Multiple energy X-ray fluorescence holography**
- Studying atomic-resolution by X-ray fluorescence holography, H. Gao, J. Chen, H. Xie, H. Zhu, R. Li and Z. Xu 248 (2005) 71

Mussel-adhesive protein

- Processing of mussel-adhesive protein analog copolymer thin films by matrix-assisted pulsed laser evaporation, T. Patz, R. Cristescu, R. Narayan, N. Menegazzo, B. Mizaikoff, P.B. Messersmith, I. Stamatin, I.N. Mihailescu and D.B. Chrisey 248 (2005) 416

Nano/micro-sized particles

- Dissymmetrization of micro-particle surface by laser-induced photochemical deposition, E. Hugonnot, M.-H. Delville and J.-P. Delville 248 (2005) 470

Nanocomposites

- Thin films of silica-carbon nanocomposites for selective solar absorbers, D. Katzen, E. Levy and Y. Mastai 248 (2005) 514

Nanocrystalline

- Nanocrystalline Sm-Fe composites fabricated by pulse laser deposition at 157 nm, S. Kobe, K. Šužek, E. Sarantopoulou, Z. Samardžija, Z. Kollia and A.C. Cefalas 248 (2005) 349

Nanofabrication

- Atomic lithography with barium atoms, A. Fioretti, A. Campoese, F. Tantussi, E. Arimondo, S. Gozzini and C. Gabbanini 248 (2005) 196

Nanolithography

- Near-field optical lithography method for fabrication of the nanodimensional objects, V.F. Dryakhlushin, A.Y. Klimov, V.V. Rogov and N.V. Vostokov 248 (2005) 200

Nanoparticles

- Combining resonant/non-resonant processes: Nanometer-scale iron-based material preparation via CO₂ laser pyrolysis, R. Alexandrescu, I. Morjan, I. Voicu, F. Dumitrache, L. Albu, I. Soare and G. Prodan 248 (2005) 138
- The emission of atoms and nanoparticles during femtosecond laser ablation of gold, M. Vitiello, S. Amoruso, C. Altucci, C. de Lisio and X. Wang 248 (2005) 163

Nd:YAG laser

- Growth of patterned thin metal oxide films on glass substrates from metallic bulk sources using a Q-switched YAG laser, N. Mir-Hosseini, M.J.J. Schmidt and L. Li 248 (2005) 204
- Pulsed laser deposition of tin-doped indium oxide (ITO) on polycarbonate, T.K. Yong, T.Y. Tou and B.S. Teo 248 (2005) 388

NEXAFS

- Characterization of functionalised porphyrin films using synchrotron radiation, V. Arima, F. Marino, J. Thompson, R. Del Sole, G. Mele, G. Vasapollo, R. Cingolani, R. Rinaldi and R.I.R. Blyth 248 (2005) 40

157 nm

- Nanocrystalline Sm-Fe composites fabricated by pulse laser deposition at 157 nm, S. Kobe, K. Šužek, E. Sarantopoulou, Z. Samardžija, Z. Kollia and A.C. Cefalas 248 (2005) 349

Non-equilibrium process

- Time-resolved photoresponse of nanometer-thick Nb/NiCu bilayers, L. Parlato, G.P. Pepe, R. Latempa, C. De Lisio, C. Altucci, P. D'Acunto, G. Peluso, A. Barone, T. Taneda and R. Sobolewski 248 (2005) 177

Numerical simulation

- Studying atomic-resolution by X-ray fluorescence holography, H. Gao, J. Chen, H. Xie, H. Zhu, R. Li and Z. Xu 248 (2005) 71

Octacalcium phosphate

- Calcium phosphate thin films synthesized by pulsed laser deposition: Physico-chemical characterization and in vitro cell response, I.N. Mihailescu, P. Torricelli, A. Bigi, I. Mayer, M. Iliescu, J. Werckmann, G. Socol, F. Miroiu, F. Cuisinier, R. Elkaim and G. Hildebrand 248 (2005) 344

Off-axis geometry

- Diamond-like carbon formation for various positions by pulsed laser deposition, S.-S. Yap and T.-Y. Tou 248 (2005) 340

On-axis geometry

- Diamond-like carbon formation for various positions by pulsed laser deposition, S.-S. Yap and T.-Y. Tou 248 (2005) 340

Optical constant

- Dense and porous ZnO thin films produced by pulsed laser deposition, Y.W. Sun, J. Gospodyn, P. Kurs, J. Sit, R.G. DeCorby and Y.Y. Tsui 248 (2005) 392

Optical fibre laser

- Design of double-clad ytterbium-doped microstructured fibre laser, A. D'Orazio, M. De Sario, L. Mescia, V. Petruzzelli and F. Prudeniano 248 (2005) 499

Optical gratings

- Photodeposited diffractive optical elements of computer generated masks, N. Mirchin, A. Peled, I. Baal-Zedaka, R. Margolin, M. Zagon, I. Lapsker, A. Verdyan and J. Azoulay 248 (2005) 509

Optical microelements

- Photodeposited diffractive optical elements of computer generated masks, N. Mirchin, A. Peled, I. Baal-Zedaka, R. Margolin, M. Zagon, I. Lapsker, A. Verdyan and J. Azoulay 248 (2005) 509

Optical microscopy

- Influence of polymer molecular weight on the UV ablation of doped poly(methyl methacrylate), E. Rebolgar, G. Bounos, M. Oujja, C. Domingo, S. Georgiou and M. Castillejo 248 (2005) 254

Optical spectroscopy

- UV-vis spectroscopy for on-line monitoring of Au nanoparticles size during growth, R. Salvati, A. Longo, G. Carotenuto, S. De Nicola, G.P. Pepe, L. Nicolais and A. Barone 248 (2005) 28

Optical waveguides

- Writing single-mode waveguides in lithium niobate by ultra-low intensity solitons, E.

- Fazio, W. Ramadan, A. Petris, M. Chauvet, A. Bosco, V.I. Vlad and M. Bertolotti 248 (2005) 97
Laser generated soliton waveguides in photorefractive crystals, V.I. Vlad, E. Fazio, M. Bertolotti, A. Bosco and A. Petris 248 (2005) 484

Optomechanical actuation

- Photoswitches operating upon ns pulsed laser irradiation, A. Athanassiou, K. Lakiotaki, M. Kalyva, S. Georgiou and C. Fotakis 248 (2005) 56

Organic molecules

- Characterisation of thin films of organic phosphorescent materials using synchrotron radiation, J. Thompson, V. Arima, F. Marino, R. Cingolani and R.I.R. Blyth 248 (2005) 36

Phase transformations

- Pulsed laser-induced phase transformations in CdTe single crystals, E. Gatskevich, G. Ivlev, P. Prikryl, R. Černý, V. Cháb and O. Cibulka 248 (2005) 259

Phonon

- Electron and phonon dynamics in laser short pulses-heated metals, L.D. Pietanza, G. Colonna and M. Capitelli 248 (2005) 103

Photo-bleaching

- Photo-bleaching response in chlorophyll solutions, N. Mirchin and A. Peled 248 (2005) 91

Photocathode applications

- Pulsed laser deposition of Mg thin films on Cu substrates for photocathode applications, L. Cultrera, A. Pereira, C. Ristoscu, A. Clozza, F. Tazzioli and C. Vicario 248 (2005) 397

Photochemical deposition

- Kinetic control of periodic surface patterning by laser photochemical deposition, E. Hugonnot and J.-P. Delville 248 (2005) 185
Dissymmetrization of micro-particle surface by laser-induced photochemical deposition, E. Hugonnot, M.-H. Delville and J.-P. Delville 248 (2005) 470

Photo-chemical deposition

- Influence of the substrate/photo-active solution interaction in patterning and adhesion of photo-deposited films, E. Hugonnot, M.-H. Delville and J.-P. Delville 248 (2005) 479

Photochromic polymers

- Photoswitches operating upon ns pulsed laser irradiation, A. Athanassiou, K. Lakiotaki, M. Kalyva, S. Georgiou and C. Fotakis 248 (2005) 56

Photodarkening

- Photoexcitation-induced processes in amorphous semiconductors, J. Singh 248 (2005) 50

Photodeposition

- Photodeposited diffractive optical elements of computer generated masks, N. Mirchin, A. Peled, I. Baal-Zedaka, R. Margolin, M. Zagon, I. Lapsker, A. Verdyan and J. Azoulay 248 (2005) 509

Photoemission spectroscopy

- The electronic properties of carbon nanotubes studied by high resolution photoemission spectroscopy, R. Larciprete, A. Goldoni, S. Lizzit and L. Petaccia 248 (2005) 8

Photoemission

- Characterisation of thin films of organic phosphorescent materials using synchrotron radiation, J. Thompson, V. Arima, F. Matino, R. Cingolani and R.I.R. Blyth 248 (2005) 36
- Characterization of functionalised porphyrin films using synchrotron radiation, V. Arima, F. Matino, J. Thompson, R. Del Sole, G. Mele, G. Vasapollo, R. Cingolani, R. Rinaldi and R.I.R. Blyth 248 (2005) 40

Photoetchable glass

- Microfabrication of 3D hollow structures embedded in glass by femtosecond laser for Lab-on-a-chip applications, Y. Cheng, K. Sugioka and K. Midorikawa 248 (2005) 172

Photo-excitation

- Photo-bleaching response in chlorophyll solutions, N. Mirchin and A. Peled 248 (2005) 91
- Time of flight transients analysis in photo-excited molecular doped polymers, N. Mirchin and A. Peled 248 (2005) 79

Photo-excited processes

- Quantum modelling of photo-excited processes, M. M.D. Ramos and H. M.G. Correia 248 (2005) 450

Photo-induced electron localization

- Time transient investigation of photo-induced electron localization at atomic step edges of Si (1 1 1), M. Ishii and B. Hamilton 248 (2005) 14

Photo-induced processes

- Photoexcitation-induced processes in amorphous semiconductors, J. Singh 248 (2005) 50

Photoluminescence

- Rare-earth doped chalcogenide thin films fabricated by pulsed laser deposition, P.K. Dwivedi, Y.W. Sun, Y.Y. Tsui, D. Tonchev, M. Munzar, K. Koughia, C.J. Haugen, R.G. DeCorby, J.N. McMullin and S.O. Kasap 248 (2005) 376
- Dense and porous ZnO thin films produced by pulsed laser deposition, Y.W. Sun, J. Gospodyn, P. Kurska, J. Sit, R.G. DeCorby and Y.Y. Tsui 248 (2005) 392

Photon emission

- Study of hot-carrier-induced photon emission from 90 nm Si MOSFETs, M. Gurfinkel, M. Borenshtein, A. Margulis, S. Sade, Y. Fefer, Y. Weizman and Y. Shapira 248 (2005) 62

Photorefractive crystals

- Writing single-mode waveguides in lithium niobate by ultra-low intensity solitons, E. Fazio, W. Ramadan, A. Petris, M. Chauvet, A. Bosco, V.I. Vlad and M. Bertolotti 248 (2005) 97
- Laser generated soliton waveguides in photorefractive crystals, V.I. Vlad, E. Fazio, M. Bertolotti, A. Bosco and A. Petris 248 (2005) 484

Photoswitches

- Photoswitches operating upon ns pulsed laser irradiation, A. Athanassiou, K. Lakiotaki, M. Kalyva, S. Georgiou and C. Fotakis 248 (2005) 56

Planar waveguides

- Spectroscopic assessment of rare-earth activated planar waveguides and microcavities, L. Zampedri, C. Tosello, H. Portales, M. Montagna, M. Mattarelli, A. Chiappini, G. C. Righini, S. Pelli, G.N. Conti, M. Martino, S. Portal, A.C. Marques, R.M. Almeida, Y. Jestin, M. Ferrari and A. Chiasera 248 (2005) 3

Plasma diagnostic techniques

- Measurement of the electrical size of a laser-induced plasma in a uniform field, A. Robledo-Martinez, H. Sobral and M. Villagrán-Muniz 248 (2005) 32

Plasma

- Characterisation of ultrashort pulse laser ablation of SmBaCuO, L. D'Alessio, A. De Bonis, A. Galasso, A. Morone, A. Santagata, R. Teghil, P. Villani and M. Zaccagnino 248 (2005) 295

PLD/PR

- Particles interaction with obstacles in a pulsed laser deposition system, A. Marcu, C. Grigoriu and K. Yatsui 248 (2005) 466

PLD

- Growth of patterned thin metal oxide films on glass substrates from metallic bulk sources using a Q-switched YAG laser, N. Mir-Hosseini, M.J.J. Schmidt and L. Li 248 (2005) 204
- Structural and electrical characterization of PLZT 22/20/80 relaxor films obtained by PLD and RF-PLD, F. Craciun, M. Dinescu, P. Verardi, N. Scarisoreanu, A. Moldovan, A. Purice and C. Galassi 248 (2005) 329
- Structural and optical characterization of AlN films grown by pulsed laser deposition, C. Ristoscu, C. Ducu, G. Socol, F. Craciunoiu and I.N. Mihailescu 248 (2005) 411

Plume behavior

- Particles interaction with obstacles in a pulsed laser deposition system, A. Marcu, C. Grigoriu and K. Yatsui 248 (2005) 466

Plume collapse

- Shadowgraphy of pulsed CO₂ laser ablation of polymers, W.O. Siew, T.Y. Tou and K.H. Wong 248 (2005) 281

Plume expansion

- Broadening and attenuation of UV laser ablation plumes in background gases, S. Amoruso, B. Toftmann and J. Schou 248 (2005) 323

PLZT

- Structural and electrical characterization of PLZT 22/20/80 relaxor films obtained by PLD and RF-PLD, F. Craciun, M. Dinescu, P. Verardi, N. Scarisoreanu, A. Moldovan, A. Purice and C. Galassi 248 (2005) 329

PMMA

- UV-initiated growth of gold nanoparticles in PMMA matrix, A. Alexandrov, L. Smirnova, N. Yakimovich, N. Sapogova, L. Soustov, A. Kirsanov and N. Bityurin 248 (2005) 181

Pollution crust

- Nd:YAG laser double wavelength ablation of pollution encrustation on marble and bonding glues on duplicated painting canvas, S. Batishche, A. Englezis, T. Gorovets, A. Kouzmouk, U. Pilipenka, P. Pouli, H. Tatur, G. Totou and V. Ukhau 248 (2005) 264

Poly(methyl methacrylate)

- Influence of polymer molecular weight on the UV ablation of doped poly(methyl methacrylate), E. Rebollar, G. Bounos, M. Ouja, C. Domingo, S. Georgiou and M. Castillejo 248 (2005) 254

Polycarbonate

- Pulsed laser deposition of tin-doped indium oxide (ITO) on polycarbonate, T.K. Yong, T.Y. Tou and B.S. Teo 248 (2005) 388

Poly-crystals

- Poly-crystallized hydroxyapatite coating deposited by pulsed laser deposition method at room temperature, M. Katto, K. Kurosawa, A. Yokotani, S. Kubodera, A. Kameyama, T. Higashiguchi, T. Nakayama and M. Tsukamoto 248 (2005) 365

Polymer ablation

- Shadowgraphy of pulsed CO₂ laser ablation of polymers, W.O. Siew, T.Y. Tou and K.H. Wong 248 (2005) 281

Polymer molecular weight

- Influence of polymer molecular weight on the UV ablation of doped poly(methyl methacrylate), E. Rebolgar, G. Bounos, M. Oujja, C. Domingo, S. Georgiou and M. Castillejo 248 (2005) 254

Polymer

- Self assembled structures on fluoro-polymers induced with laser light at 157 nm, Z. Kolliia, E. Sarantopoulou, A.C. Cefalas, S. Kobe, P. Argitis and K. Missiakos 248 (2005) 248

Polymerization

- Polymerization of C_{60} fullerene thin films by UV pulsed laser irradiation, E. Alvarez-Zauco, H. Sobral, E.V. Basiuk, J.M. Saniger-Blesa and M. Villagrán-Muniz 248 (2005) 243

Porous film

- Dense and porous ZnO thin films produced by pulsed laser deposition, Y.W. Sun, J. Gospodyn, P. Kursa, J. Sit, R.G. DeCorby and Y.Y. Tsui 248 (2005) 392

Porous silica

- Thin films of silica-carbon nanocomposites for selective solar absorbers, D. Katzen, E. Levy and Y. Mastai 248 (2005) 514

Porphyrins

- Characterization of functionalised porphyrin films using synchrotron radiation, V. Arima, F. Matino, J. Thompson, R. Del Sole, G. Mele, G. Vasapollo, R. Cingolani, R. Rinaldi and R.I.R. Blyth 248 (2005) 40

Proximized superconducting-ferromagnetic bilayer

- Time-resolved photoresponse of nanometer-thick Nb/NiCu bilayers, L. Parlato, G.P. Pepe, R. Latempa, C. De Lisio, C. Altucci, P. D'Acunto, G. Peluso, A. Barone, T. Taneda and R. Sobolewski 248 (2005) 177

Pulse laser deposition

- Nanocrystalline Sm-Fe composites fabricated by pulse laser deposition at 157 nm, S. Kobe, K. Šužek, E. Sarantopoulou, Z. Samardžija, Z. Kolliia and A.C. Cefalas 248 (2005) 349

Pulsed ablation deposition

- Deposition of ITO films on SiO_2 substrates, F. Ngaffo, A. P. Caricato, A. Fazzi, M. Fernandez, S. Lattante, M. Martino and F. Romano 248 (2005) 428

Pulsed laser ablation

- Space and time resolved emission spectroscopy of Sr_2FeMoO_6 laser induced plasma, A. Santagata, A. Di Trollo, G.P. Parisi and R. Larciprete 248 (2005) 19
- Transfer of stoichiometry during pulsed laser ablation of multicomponent magnetic targets, S. Acquaviva, E. D'Anna, M.L. De Giorgi, M. Fernandez, A. Luches, G. Majni, S. Luby and E. Majkova 248 (2005) 286

Pulsed laser deposition

- Rare-earth doped chalcogenide thin films fabricated by pulsed laser deposition, P.K. Dwivedi, Y.W. Sun, Y.Y. Tsui, D. Tonchev, M. Munzar, K. Koughia, C.J. Haugen, R.G. DeCorby, J.N. McMullin and S.O. Kasap 248 (2005) 376
- Excimer pulsed laser deposition and annealing of YSZ nanometric films on Si substrates, A.P. Caricato, G. Barucca, A. Di Cristoforo, G. Leggeri, A. Luches, G. Majni, M. Martino and P. Mengucci 248 (2005) 270
- Pulsed laser deposition of nano-glassy carbon films, P.M. Ossi, C.E. Bottani and A. Miotello 248 (2005) 334
- Diamond-like carbon formation for various positions by pulsed laser deposition, S.-S. Yap and T.-Y. Tou 248 (2005) 340
- Calcium phosphate thin films synthesized by pulsed laser deposition: Physico-chemical characterization and in vitro cell response, I.N. Mihailescu, P. Torricelli, A. Bigi, I. Mayer, M. Iliescu, J. Werckmann, G. Socol, F. Miroiu, F. Cuisinier, R. Elkaim and G. Hildebrand 248 (2005) 344
- Pulsed laser deposition of hydroxylapatite thin films on biomorphic silicon carbide ceramics, J.P. Borrajo, J. Serra, S. Liste, P. González, S. Chiussi, B. León and M. Pérez-Amor 248 (2005) 355
- Plasma assisted pulsed laser deposition of hydroxylapatite thin films, E.L. Solla, J.P. Borrajo, P. González, J. Serra, S. Liste, S. Chiussi, B. León and M. Pérez-Amor 248 (2005) 360
- Poly-crystallized hydroxyapatite coating deposited by pulsed laser deposition method at room temperature, M. Katto, K. Kurosawa, A. Yokotani, S. Kubodera, A. Kameyama, T. Higashiguchi, T. Nakayama and M. Tsukamoto 248 (2005) 365

- Pulsed laser deposition of bioactive glass films in ammonia and disilane atmospheres, J.P. Borrajo, P. González, S. Liste, J. Serra, S. Chiussi, B. León and M. Pérez-Amor 248 (2005) 369
- Glass and glass ceramic materials obtained by pulsed laser deposition in the $\text{BaO-TiO}_2\text{-B}_2\text{O}_3$ system, L. Boroica, R. Medianu, M. Dinescu and I. Boroica 248 (2005) 381
- Pulsed laser deposition of tin-doped indium oxide (ITO) on polycarbonate, T.K. Yong, T.Y. Tou and B.S. Teo 248 (2005) 388
- Dense and porous ZnO thin films produced by pulsed laser deposition, Y.W. Sun, J. Gospodyn, P. Kurska, J. Sit, R.G. DeCorby and Y.Y. Tsui 248 (2005) 392
- A computer program for determination of thin films thickness and optical constants, A.P. Caricato, A. Fazzi and G. Leggieri 248 (2005) 440
- Structural and compositional analysis of transition-metal-doped ZnO and GaN PLD thin films, L.S. Dorneles, D. O'Mahony, C.B. Fitzgerald, F. McGee, M. Venkatesan, I. Stanca, J.G. Lunney and J.M.D. Coey 248 (2005) 406
- Pulsed laser induced epitaxy (PLIE)**
- Finite elements analysis of heteroepitaxial SiGe layers grown by excimer laser, J.C. Conde, P. González, F. Lusquinos, S. Chiussi, J. Serra and B. León 248 (2005) 461
- Pulsed laser irradiation**
- Tailoring of multilayer interfaces by pulsed laser irradiation, S. Luby and E. Majkova 248 (2005) 316
- Pulsed-laser deposition**
- Absorption and photoconductivity properties of ZnTe thin films formed by pulsed-laser deposition on glass, A. Erlacher, M. Ambrico, G. Perna, L. Schiavulli, T. Ligonzo, H. Jaeger and B. Ullrich 248 (2005) 402
- Pump-probe measurements**
- Time-resolved photoresponse of nanometer-thick Nb/NiCu bilayers, L. Parlato, G.P. Pepe, R. Latempa, C. De Lisio, C. Altucci, P. D'Acunto, G. Peluso, A. Barone, T. Tameda and R. Sobolewski 248 (2005) 177
- Quantum modelling**
- Quantum modelling of photo-excited processes, M. M.D. Ramos and H.M.G. Correia 248 (2005) 450
- Quasicrystals**
- Ultrashort pulsed laser vaporisation of icosahedral Al-Pd-Mn, R. Teghil, L. D'Alessio, A.D. Bonis, A. Galasso, P. Villani, M. Zaccagnino, A. Santagata and D.J. Sordet 248 (2005) 304
- Radiative recombination**
- Photoexcitation-induced processes in amorphous semiconductors, J. Singh 248 (2005) 50
- Radio frequency plasma**
- Plasma assisted pulsed laser deposition of hydroxylapatite thin films, E.L. Solla, J.P. Borrajo, P. González, J. Serra, S. Liste, S. Chiussi, B. León and M. Pérez-Amor 248 (2005) 360
- Raman scattering**
- Pulsed laser deposition of nano-glassy carbon films, P.M. Ossi, C.E. Bottani and A. Miotello 248 (2005) 334
- Raman spectroscopy**
- Influence of polymer molecular weight on the UV ablation of doped poly(methyl methacrylate), E. Rebollar, G. Bounos, M. Oujja, C. Domingo, S. Georgiou and M. Castillejo 248 (2005) 254
- Microstructural modification of LiNbO_3 crystals induced by femtosecond laser irradiation, P. Galinetto, D. Ballarini, D. Grando and G. Samoggia 248 (2005) 291
- Rapid prototyping**
- Effects of wire feeding direction and location in multiple layer diode laser direct metal deposition, W.U.H. Syed and L. Li 248 (2005) 518
- Rare-earth magnets**
- Nanocrystalline Sm-Fe composites fabricated by pulse laser deposition at 157 nm, S. Kobe, K. Šužek, E. Sarantopoulou, Z. Samardžija, Z. Kollia and A.C. Cefalas 248 (2005) 349
- RBS**
- Growth of patterned thin metal oxide films on glass substrates from metallic bulk sources using a Q-switched YAG laser, N. Mir-Hosseini, M.J.J. Schmidt and L. Li 248 (2005) 204

Re-deposition

- Femtosecond laser micro-structuring of alumina ceramic, W. Perrie, A. Rushton, M. Gill, P. Fox and W. O'Neill 248 (2005) 213

Reflectivity

- Pulsed laser-induced phase transformations in CdTe single crystals, E. Gatskevich, G. Ivlev, P. Prikryl, R. Černý, V. Cháb and O. Cibulka 248 (2005) 259

Refractive index

- Deposition of ITO films on SiO₂ substrates, F. Ngaffo, A. P. Caricato, A. Fazzi, M. Fernandez, S. Lattante, M. Martino and F. Romano 248 (2005) 428
- A computer program for determination of thin films thickness and optical constants, A.P. Caricato, A. Fazzi and G. Leggieri 248 (2005) 440

Relaxor

- Structural and electrical characterization of PLZT 22/20/80 relaxor films obtained by PLD and RF-PLD, F. Craciun, M. Dinescu, P. Verardi, N. Scarisoreanu, A. Moldovan, A. Purice and C. Galassi 248 (2005) 329

Resist

- Laser controlled nanodeposition of neutral atoms, E. Arimondo 248 (2005) 167

Scanning device

- Design, analysis and fabrication of a new MEMS scanning device actuator, S. Eliahou-Niv 248 (2005) 503

Scanning force microscopy

- Femtosecond laser-induced decomposition in triazenepolymer thin films, J. Bonse, S.M. Wiggins, J. Solis, T. Lippert and H. Sturm 248 (2005) 157

Scanning near-field optical microscopy

- Near-field optical lithography method for fabrication of the nanodimensional objects, V.F. Dryakhlushin, A.Y. Klimov, V.V. Rogov and N.V. Vostokov 248 (2005) 200

Second harmonic generation

- Nonlinear-optical diagnostics for laser ablation and photo-heating of biotissue, A.A. Lalayan 248 (2005) 24

Selective solar absorber

- Thin films of silica-carbon nanocomposites for selective solar absorbers, D. Katzen, E. Levy and Y. Mastai 248 (2005) 514

Self assembly

- Self assembled structures on fluoro-polymers induced with laser light at 157 nm, Z. Kollia, E. Sarantopoulou, A.C. Cefalas, S. Kobe, P. Argitis and K. Missiakos 248 (2005) 248

Self-assembling monolayers

- Laser controlled nanodeposition of neutral atoms, E. Arimondo 248 (2005) 167

Semiconductor device models

- Study of hot-carrier-induced photon emission from 90 nm Si MOSFETs, M. Gurfinkel, M. Borenshtein, A. Margulis, S. Sade, Y. Fefer, Y. Weizman and Y. Shapira 248 (2005) 62

Sensitizer

- Combining resonant/non-resonant processes: Nanometer-scale iron-based material preparation via CO₂ laser pyrolysis, R. Alexandrescu, I. Morjan, I. Voicu, F. Dumitrache, L. Albu, I. Soare and G. Prodan 248 (2005) 138

Shear stress

- Nanotechnological applications of nonlinear surface acoustic waves: Mechanism of brittle fracture, P. Hess and A.M. Lomonosov 248 (2005) 123

Shock front

- Shadowgraphy of pulsed CO₂ laser ablation of polymers, W.O. Siew, T.Y. Tou and K.H. Wong 248 (2005) 281

a-SiC:H

- Compositional, structural and optical properties of Si-rich a-SiC:H thin films deposited by ArF-LCVD, E. López, S. Chiussi, U. Kosch, P. González, J. Serra, C. Serra and B. León 248 (2005) 113

Si/SiO_x interface

- Time transient investigation of photo-induced electron localization at atomic step edges of Si (1 1 1), M. Ishii and B. Hamilton 248 (2005) 14

SiO₂

- Laser patterning of SiO_x-layers for the fabrication of UV diffractive phase elements, M. Schulz-Ruhtenberg, J. Ihlemann and J. Heber 248 (2005) 190

SiO_x

- Laser patterning of SiO_x-layers for the fabrication of UV diffractive phase elements, M. Schulz-Ruhtenberg, J. Ihlemann and J. Heber 248 (2005) 190

Skin tissue

- Nonlinear-optical diagnostics for laser ablation and photo-heating of biotissue, A.A. Lalayan 248 (2005) 24

SnO₂

- Epitaxial growth of tin oxide films on (0 0 1) TiO₂ substrates by KrF and XeCl excimer laser annealing, T. Tsuchiya, A. Watanabe, T. Kumagai and S. Mizuta 248 (2005) 118

Soda lime glass

- Point defect production by ultrafast laser irradiation of alkali-containing silica glasses and alkali halide single crystals, S.M. Avanesyan, S. Orlando, S.C. Langford and J.T. Dickinson 248 (2005) 129

Sodium chloride

- Point defect production by ultrafast laser irradiation of alkali-containing silica glasses and alkali halide single crystals, S.M. Avanesyan, S. Orlando, S.C. Langford and J.T. Dickinson 248 (2005) 129

Solar cell

- Quantum modelling of photo-excited processes, M. M.D. Ramos and H.M.G. Correia 248 (2005) 450

Solitons

- Writing single-mode waveguides in lithium niobate by ultra-low intensity solitons, E. Fazio, W. Ramadan, A. Petris, M. Chauvet, A. Bosco, V.I. Vlad and M. Bertolotti 248 (2005) 97
- Laser generated soliton waveguides in photorefractive crystals, V.I. Vlad, E. Fazio, M. Bertolotti, A. Bosco and A. Petris 248 (2005) 484

Sol-gel method

- Spectroscopic assessment of rare-earth activated planar waveguides and microcavities, L. Zampedri, C. Tosello, H. Portales, M. Montagna, M. Mattarelli, A. Chiappini, G. C. Righini, S. Pelli, G.N. Conti, M. Martino, S. Portal, A.C. Marques, R.M. Almeida, Y. Jestin, M. Ferrari and A. Chiasera 248 (2005) 3

Spectra hole burning

- Recent progress in femtosecond holography, H. Zhu, J. Chen, H. Gao, H. Xie, R. Li and Z. Xu 248 (2005) 75

Spectroscopy

- Characterization of LaMnO₃ laser ablation in oxygen by ion probe and optical emission spectroscopy, S. Amoroso, R. Bruzzese, R. Velotta, N. Spinelli, M. Vitiello and X. Wang 248 (2005) 45
- The emission of atoms and nanoparticles during femtosecond laser ablation of gold, M. Vitiello, S. Amoroso, C. Altucci, C. de Lisio and X. Wang 248 (2005) 163

Spiropyran

- Photoswitches operating upon ns pulsed laser irradiation, A. Athanassiou, K. Lakiotaki, M. Kalyva, S. Georgiou and C. Fotakis 248 (2005) 56

Sputtering

- Structural and compositional analysis of transition-metal-doped ZnO and GaN PLD thin films, L.S. Dorneles, D. O'Mahony, C.B. Fitzgerald, F. McGee, M. Venkatesan, I. Stanca, J.G. Lunney and J.M.D. Coey 248 (2005) 406

Stoichiometry

- Transfer of stoichiometry during pulsed laser ablation of multicomponent magnetic targets, S. Acquaviva, E. D'Anna, M.L. De

- Giorgi, M. Fernandez, A. Luches, G. Majni, S. Luby and E. Majkova 248 (2005) 286
- Substrate current**
- Study of hot-carrier-induced photon emission from 90 nm Si MOSFETs, M. Gurfinkel, M. Borenshtein, A. Margulis, S. Sade, Y. Fefer, Y. Weizman and Y. Shapira 248 (2005) 62
- Superconductors**
- Characterisation of ultrashort pulse laser ablation of SmBaCuO, L. D'Alessio, A. De Bonis, A. Galasso, A. Morone, A. Santagata, R. Teghil, P. Villani and M. Zaccagnino 248 (2005) 295
- Surface acoustic waves**
- Nanotechnological applications of nonlinear surface acoustic waves: Mechanism of brittle fracture, P. Hess and A.M. Lomonosov 248 (2005) 123
- Surface cleaning**
- A support of restoration intervention of the bust of St. Gregory the Armenian: Compositional investigations by laser induced breakdown spectroscopy, S. Acquaviva, M.L. De Giorgi, C. Marini and R. Poso 248 (2005) 218
- Surface patterning**
- Kinetic control of periodic surface patterning by laser photochemical deposition, E. Hugonnot and J.-P. Delville 248 (2005) 185
- Dissymmetrization of micro-particle surface by laser-induced photochemical deposition, E. Hugonnot, M.-H. Delville and J.-P. Delville 248 (2005) 470
- Influence of the substrate/photo-active solution interaction in patterning and adhesion of photo-deposited films, E. Hugonnot, M.-H. Delville and J.-P. Delville 248 (2005) 479
- Surface plasmon**
- UV-vis spectroscopy for on-line monitoring of Au nanoparticles size during growth, R. Salvati, A. Longo, G. Carotenuto, S. De Nicola, G.P. Pepe, L. Nicolais and A. Barone 248 (2005) 28
- Surface quality**
- Particles interaction with obstacles in a pulsed laser deposition system, A. Marcu, C. Grigoriu and K. Yatsui 248 (2005) 466
- Surface treatment**
- Self assembled structures on fluoro-polymers induced with laser light at 157 nm, Z. Kollia, E. Sarantopoulou, A.C. Cefalas, S. Kobe, P. Argitis and K. Missiakos 248 (2005) 248
- Synchronized two laser system**
- Growth of Al doped ZnO thin films by a synchronized two laser system, E. György, J. Santiso, A. Giannoudakos, M. Kompitsas, I.N. Mihailescu and D. Pantelica 248 (2005) 147
- Synchrotron radiation**
- Characterization of functionalised porphyrin films using synchrotron radiation, V. Arima, F. Matino, J. Thompson, R. Del Sole, G. Mele, G. Vasapollo, R. Cingolani, R. Rinaldi and R.I.R. Blyth 248 (2005) 40
- Temperature distribution**
- Analytical and numerical calculations of the temperature distribution in Si and Ge targets irradiated by excimer lasers, J.C. Conde, P. González, F. Lusquinos, S. Chiussi, J. Serra and B. León 248 (2005) 455
- Tensile stress**
- Nanotechnological applications of nonlinear surface acoustic waves: Mechanism of brittle fracture, P. Hess and A.M. Lomonosov 248 (2005) 123
- Thin film deposition**
- Growth of patterned thin metal oxide films on glass substrates from metallic bulk sources using a Q-switched YAG laser, N. Mir-Hosseini, M.J.J. Schmidt and L. Li 248 (2005) 204
- Characterisation of ultrashort pulse laser ablation of SmBaCuO, L. D'Alessio, A. De Bonis, A. Galasso, A. Morone, A. Santagata, R. Teghil, P. Villani and M. Zaccagnino 248 (2005) 295

Thin film

- Rare-earth doped chalcogenide thin films fabricated by pulsed laser deposition, P.K. Dwivedi, Y.W. Sun, Y.Y. Tsui, D. Tonchev, M. Munzar, K. Koughia, C.J. Haugen, R.G. DeCorby, J.N. McMullin and S.O. Kasap 248 (2005) 376
- Dense and porous ZnO thin films produced by pulsed laser deposition, Y.W. Sun, J. Gospodyn, P. Kursal, J. Sit, R.G. DeCorby and Y.Y. Tsui 248 (2005) 392

Thin films

- Influence of the substrate temperature on the structure of Ge containing thin films produced by ArF laser induced chemical vapour deposition, E. López, S. Chiussi, P. González, J. Serra and B. León 248 (2005) 108
- Compositional, structural and optical properties of Si-rich a-SiC:H thin films deposited by ArF-LCVD, E. López, S. Chiussi, U. Kosch, P. González, J. Serra, C. Serra and B. León 248 (2005) 113
- Polymerization of C₆₀ fullerene thin films by UV pulsed laser irradiation, E. Alvarez-Zauco, H. Sobral, E.V. Basiuk, J.M. Saniger-Blesa and M. Villagrán-Muniz 248 (2005) 243
- Nanocrystalline Sm-Fe composites fabricated by pulse laser deposition at 157 nm, S. Kobe, K. Šužek, E. Sarantopoulou, Z. Samardžija, Z. Kollić and A.C. Cefalas 248 (2005) 349
- Laser photodeposition of thin semiconductor films from iron carbonyl vapors, S.A. Mulyenko, A.V. Izvekov, Y.N. Petrov, V.P. Mygashko and V.S. Ovechko 248 (2005) 475

Thin-film tilt interference filter

- Design, analysis and fabrication of a new MEMS scanning device actuator, S. Eliahou-Niv 248 (2005) 503

(0 0 1) TiO₂

- Epitaxial growth of tin oxide films on (0 0 1) TiO₂ substrates by KrF and XeCl excimer laser annealing, T. Tsuchiya, A. Watanabe, T. Kumagai and S. Mizuta 248 (2005) 118

Time transient

- Time transient investigation of photo-induced electron localization at atomic step edges of Si (1 1 1), M. Ishii and B. Hamilton 248 (2005) 14

Time-resolved reflectivity measurements

- Phase transitions induced by femtosecond laser pulse irradiation of indium phosphide, J. Bonse, S.M. Wiggins and J. Solis 248 (2005) 151
- Femtosecond laser-induced decomposition in triazenepolymer thin films, J. Bonse, S.M. Wiggins, J. Solis, T. Lippert and H. Sturm 248 (2005) 157

Tin oxide

- Growth of patterned thin metal oxide films on glass substrates from metallic bulk sources using a Q-switched YAG laser, N. Mir-Hosseini, M.J.J. Schmidt and L. Li 248 (2005) 204

Tissue heating

- Nonlinear-optical diagnostics for laser ablation and photo-heating of biotissue, A.A. Lalayan 248 (2005) 24

Titanates

- Glass and glass ceramic materials obtained by pulsed laser deposition in the BaO-TiO₂-B₂O₃ system, L. Boroica, R. Medianu, M. Dinescu and I. Boroica 248 (2005) 381

Titanium-oxide gel

- Kinetics of UV-induced darkening of titanium-oxide gels, N. Bityurin, A.I. Kuznetsov and A. Kanaev 248 (2005) 86

Transmittance

- A computer program for determination of thin films thickness and optical constants, A.P. Caricato, A. Fazzi and G. Leggeri 248 (2005) 440

Triazenepolymer film

- Femtosecond laser-induced decomposition in triazenepolymer thin films, J. Bonse, S.M. Wiggins, J. Solis, T. Lippert and H. Sturm 248 (2005) 157

Tunable-filter

- Design, analysis and fabrication of a new MEMS scanning device actuator, S. Eliahou-Niv 248 (2005) 503

Tunneling absorption

- Nonlinear absorption mechanism in ablation of transparent materials by high power and ultrashort laser pulses, P. G. Eliseev, O. N. Krokhin and I. N. Zavestovskaya 248 (2005) 313

UV irradiation

- UV-initiated growth of gold nanoparticles in PMMA matrix, A. Alexandrov, L. Smirnova, N. Yakimovich, N. Sapogova, L. Soustov, A. Kirsanov and N. Biturin 248 (2005) 181

UV laser

- Time transient investigation of photo-induced electron localization at atomic step edges of Si (1 1 1), M. Ishii and B. Hamilton 248 (2005) 14
- Kinetics of UV-induced darkening of titanium-oxide gels, N. Biturin, A.I. Kuznetsov and A. Kanaev 248 (2005) 86

UV-laser

- Laser patterning of SiO_x-layers for the fabrication of UV diffractive phase elements, M. Schulz-Ruhtenberg, J. Ihlemann and J. Heber 248 (2005) 190

Vacuum ultraviolet

- Self assembled structures on fluoro-polymers induced with laser light at 157 nm, Z. Kollia, E. Sarantopoulou, A.C. Cefalas, S. Kobe, P. Argitis and K. Missiakos 248 (2005) 248

Volume expansion

- Photoexcitation-induced processes in amorphous semiconductors, J. Singh 248 (2005) 50

Water

- Formation of large water clusters by IR laser resonant desorption of ice, C. Mihsan, M. Ziskind, B. Chazallon, C. Focsa and J.L. Destombes 248 (2005) 238

XeCl

- Epitaxial growth of tin oxide films on (0 0 1) TiO₂ substrates by KrF and XeCl excimer

- laser annealing, T. Tsuchiya, A. Watanabe, T. Kumagai and S. Mizuta 248 (2005) 118

XPS

- Compositional, structural and optical properties of Si-rich a-SiC:H thin films deposited by ArF-LCVD, E. López, S. Chiussi, U. Kosch, P. González, J. Serra, C. Serra and B. León 248 (2005) 113
- Growth of patterned thin metal oxide films on glass substrates from metallic bulk sources using a Q-switched YAG laser, N. Mir-Hosseini, M.J.J. Schmidt and L. Li 248 (2005) 204

X-ray absorption

- Characterisation of thin films of organic phosphorescent materials using synchrotron radiation, J. Thompson, V. Arima, F. Matino, R. Cingolani and R.I.R. Blyth 248 (2005) 36

X-ray diffraction

- Absorption and photoconductivity properties of ZnTe thin films formed by pulsed-laser deposition on glass, A. Erlacher, M. Ambrico, G. Perna, L. Schiavulli, T. Ligonzo, H. Jaeger and B. Ullrich 248 (2005) 402

X-ray fluorescence holography

- Studying atomic-resolution by X-ray fluorescence holography, H. Gao, J. Chen, H. Xie, H. Zhu, R. Li and Z. Xu 248 (2005) 71

X-ray reflectivity

- Excimer pulsed laser deposition and annealing of YSZ nanometric films on Si substrates, A.P. Caricato, G. Barucca, A. Di Cristoforo, G. Leggieri, A. Luches, G. Majni, M. Martino and P. Mengucci 248 (2005) 270

XRD

- Influence of the substrate temperature on the structure of Ge containing thin films produced by ArF laser induced chemical vapour deposition, E. López, S. Chiussi, P. González, J. Serra and B. León 248 (2005) 108

Ytterbium-doped laser

- Design of double-clad ytterbium-doped microstructured fibre laser, A. D'Orazio, M. De Sario, L. Mescia, V. Petruzzelli and F. Prudeniano 248 (2005) 499

Ytria-stabilised zirconia

- Excimer pulsed laser deposition and annealing of YSZ nanometric films on Si substrates, A.P. Caricato, G. Barucca, A. Di Cristoforo, G. Leggieri, A. Luches, G. Majni, M. Martino and P. Mengucci 248 (2005) 270

ZnO

- Dense and porous ZnO thin films produced by pulsed laser deposition, Y.W. Sun, J. Gospodyn, P. Kurska, J. Sit, R.G. DeCorby and Y.Y. Tsui 248 (2005) 392

ZnTe thin films

- Absorption and photoconductivity properties of ZnTe thin films formed by pulsed-laser deposition on glass, A. Erlacher, M. Ambrico, G. Perna, L. Schiavulli, T. Ligonzo, H. Jaeger and B. Ullrich 248 (2005) 402

